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CHAPTER HIGHLIGHTS

1. PHILADELPHIA

Meeting Calendar
June 5, 1994
September 18, 1994
October 30, 1994
December 30, 1994

Our attendance was low due to very foul weather a short time before our meeting on January 9th, but we still had over 250 for dinner.

Bill Sewell took over for Fred Breitinger at the clock repair workshop and, from all reports, did a masterful job. James Sturm presented a program on radium dials and the use of radium in the dial industry.

X-rays became known in 1895 and in 1896 it was found that uranium contained radioactivity. Between 1898 and 1902 the Curies began extracting radium salt from pitchblende. About 1915 was the beginning of radium dials on watches by the U.S. Radium Co. At one time they had 250 dial painters on piecework.

During World War I one sixth of all the soldiers had watches with radium dials. By 1920 Ingersoll had four million Radiolite dials on their watches. Between 1921 and 1924, nine dial painters died of various diseases. In 1924 there was a report linking diseases to dial painting. Dial painters filed a suit and in 1927 some were in such shape that they had to be assisted to the witness stand. The dial companies tried to delay the report and even blamed the sicknesses on poor personal hygiene. By 1962 tritium and promethium 147 were used in watch dials which negated the radioactive effects.

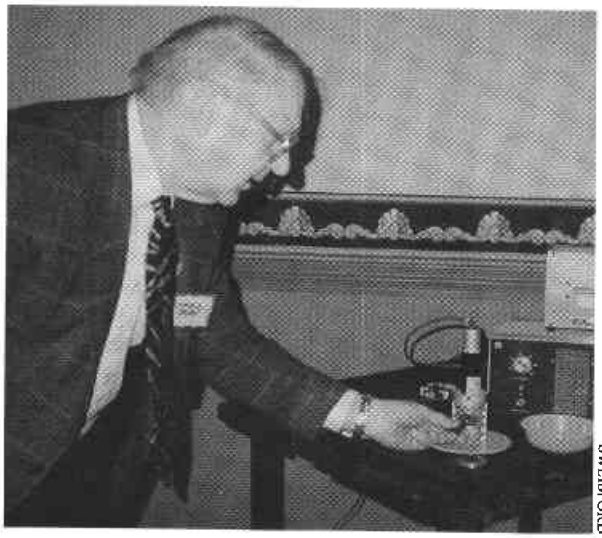
Our speaker had a Geiger counter type machine to read radioactivity and showed us the variations in different types of dials and even in the dishes called Fiestaware. This was a very informative program by a knowledgeable speaker. —*John O. Sweisford*

2. NEW YORK

Meeting Calendar
May 1, 1994

A meeting was held at the Crowne Plaza-Holiday Inn in White Plains, NY, on November 28, 1993. A very interesting program was presented by Harry Blair on the 1993 Henry Fried tour, which covered horology in Great Britain.

Some of the places visited were: the Parliament tower clock, "Big Ben," which, when built, required three men, six hours/day, three days/week, to keep it wound. It was electrified in 1906 and the electrification rebuilt in 1957. The Salisbury Cathedral clock, dated 1386, and found in 1928, is the oldest working clock in Britain. Also included in the tour were: the headquarters of the British Horological Institute, founded in 1858; Sotheby's, for a visit with George Daniels; Prescot, the toolmaking center of England in the 1700's; the clock collection in the "student room" at the British Museum; and the fabulous Harris collection at Belmont. —*George Feinstein*



SWEISFORD

James Sturm shows Chapter #1 the radioactive count of a radium dial watch.

5. SAN FRANCISCO—DR. W. BARCLAY STEPHENS MEMORIAL

Meeting Calendar
Second Sunday—MART Months
Except First Sunday—May

Our regular meeting was held on 9 January 1994, at the San Leandro Boys and Girls Club, whose location just one-half mile from the San Leandro Bay Area Rapid Transit station, as well as a plethora of parking in two lots, once again encouraged lots of members to attend a very active mart. The display subject was repeater watches, and John Grass (proprietor/owner of Kilborne, Proctor, and Grass clock movement factory) brought a veritable chorus of them, some with automata, displayed in a nice case, with carefully prepared typewritten descriptions on cards. Other contributors to the exhibit, using a case provided by Don Levison, were Jerry Talbert and Dorian Clair. All these pieces were admired by many members and guests until the start of the membership meeting.

After the usual raffle for door prizes conducted by John Stohr, a special drawing was held for persons contributing to the display. The prize —a year's paid membership in the chapter— was won by Jerry Talbert. It was then announced that the following persons had been elected (or, in some cases, re-elected) to the Board of Directors of Chapter #5 for the next two years: Glenda Couch, Paul Bailey-Gates, Larry Bernard, Don Couch, Karl Kochman, Carsten Marsch,

Total membership on
February 1, 1994—37,999

First accession number on
February 10, 1994—124,325

CHAPTER HIGHLIGHT DEADLINES

February issue—December 10
April issue—February 10
June issue—April 10
August issue—June 10
October issue—August 10
December issue—October 10

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DORIAN CLAIR (2)

In photo at left, National Director Arthur Bjornestad and meeting speaker Julie Porter stand with Chapter #5 Secretary Paul Bailey-Gates. At right, Chapter #5's meeting speaker Julie Porter with automaton fairy friend, Adlemouse Fey.

Jerry Kroeger, and Frank Vonderwerth. Four more Board members continue in service for another year: Dorian Clair, Seth Finkelstein, Julie Porter, and John Stohr.

We were fortunate to have in attendance a member of the National Board of Directors, Arthur Bjornestad, who spoke briefly of the upcoming Russia Tour and the new Life Member category of membership available from NAWCC. He also answered several questions on these subjects.

After this, Program Coordinator Larry Bernard introduced the speaker for the afternoon, Julie Porter, who appeared dressed in authentic 18th century costume along with her own automaton creation: a fairy, complete with wings, about the size of an English skeleton clock! Julie introduced Adlemouse Fey and showed us the fairy's ability to flap her wings, move her arms, and blink her eyes in a very life-like manner. Julie then explained how she had built this creature over a period of a year using a combination of electrics and pneumatics with her own designs adapted from the 18th century masters, Jaquet-Droz of Switzerland. Then, by means of a slide and lecture presentation, we learned about the father-son team of Pierre and Henri Louis Jaquet-Droz, whose works are legendary in Switzerland, and who followed in the footsteps of Vaucanson. These makers were famous also for repeater watches, tying directly into the display. We were shown 18th century miracles of automation: a writer capable of writing up to 40 characters in pre-arranged sequence; a musician doll that can play a keyboard; pistols and snuff boxes with singing birds; and the inside mechanics of all these wonders. We were also allowed to see some photographs of Fairy Adlemouse Fey under construction. We learned that all these early mechanisms were related directly to watches and clocks, employing fusees, levers, springs, and cams, as well as being prototypes of the first computers and their printers developed in the middle of this century, 200 years later!

The members and guests attending the presentation were quite fascinated by all this technology as well as the expertise and extensive knowledge Julie displayed in explaining everything and answering numerous questions. Having received a Certificate of Appreciation for her remarkable presentation, Julie Porter, with fairy friend Adlemouse Fey, bowed out of the room, while the audience expressed its own form of appreciation.

At the Board of Directors meeting immediately following, plans for the coming year and the projected 1995 regional were discussed, after duties were assigned. The following people were elected officers: John Stohr, President; Larry Bernard, Vice President; Paul Bailey-Gates, Secretary; Frank Vonderwerth, Treasurer. Duties were assigned as follows: Seth Finkelstein will continue to manage the popular silent auction as he has so capably for the last 15 years; Dorian Clair will take over the door prizes and continue as photographer; Glenda Couch will be responsible for the display table sign originally made and handled by Jim Gordon; and Larry Bernard will continue as Program Coordinator. The meeting was adjourned, all hoping that Frank Vonderwerth, who had to leave early, will speedily and fully recover from his recent serious operation. *—Larry Bernard*

7. HEADQUARTERS (PA)

Meeting Calendar
First Saturday—BULLETIN Months

The Deep Freeze of January '94 will long be remembered in the eastern half of the U.S. for its brutally cold and icy weather. But despite all the snow and ice and cold, loyal Chapter #7 members turned out for the January 23rd meeting in Columbia. There were a surprisingly large number of people at the dinner meeting and the mart was in full swing for the hour before dinner was served.

Our speaker was member and clockmaker Joe Balt. His topic was "The Ins and Outs of Clockmaking," in which he discussed many things that should be avoided when doing clock repair for monetary return. The "Ins" included insurance, estimates, etc. The talk was most informative and gave much food for thought.

Due to the inclement weather, the meeting adjourned earlier than usual. *—Isobel Rambo*

10. OHIO VALLEY

Meeting Calendar
Second Sunday—BULLETIN Months

Chapter #10 held their meeting at the Park Hotel, Sunday, October 17, 1993, in Canton, OH. We had 65 people for the mart, and 35 stayed for the dinner.

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Our program was given by Mark Fulmer on tools and machinery used by the watch and clock manufacturers of long ago. It was a very interesting program and enjoyed by all.

We have booked the Park Hotel for the 1994 meetings. *—Liz Carmany*

12. WASHINGTON, D.C.

Meeting Calendar
April 17, 1994
May 22, 1994
June 19, 1994

The program for our December 12, 1993 meeting was an unusually interesting one—a talk by Dr. John Herman on his three-pole motor driven clocks made by the Self-Winding Clock Company. Very little has been written about these clocks so they are still a bargain in the marts. The company operated from 1884 to 1972 and supplied clocks for schools, offices, factories, etc. Horological parts were supplied by such makers as Seth Thomas, E. Howard, and Waterbury, but the motors were added by the company.

John showed slides of his own considerable collection of self-winding clocks. Then Art Redfield and John demonstrated how these unusual battery-powered motors worked and how they wound mainsprings. The clocks are often not running when bought nowadays because people don't know how to repair the motors. But once in order, they keep running with remarkable accuracy and use a minimum of current.

The members of Chapter #12 found the discussion fascinating and crowded about after the talk for a look at the movements and motors on display. The members voted thanks to Kathy Pritchard for making chapter name tags.

At our January 16th meeting the featured speaker was David Todd, Museum Specialist at the National Museum of American History. David described his recreation of Richard Bond's Isodynamic Escapement using 19th century engravings and careful examination of the plates of the Bond clock which originally held the escapement. David showed slides of his daily progress on the clock and its final assembly prior to being shipped to the Fogg Museum in Cambridge for display during the NAWCC Longitude Symposium. David's careful workmanship impressed everyone, and the various cliff-hangers he experienced kept everyone in suspense. It was an unusual and exciting talk (which will be given at the 1994 National Convention in Orlando).

Norman Langmaid had brought an extraordinary English bracket clock dating from ca. 1715. He had the clock converted back to verge from a previous conversion to lever. The clock was a musical clock striking on gongs and showed day, date, moon phases, and day of the moon cycle. Norman was in process of cleaning the case and showed us the various parts with original fire gilt. *—Kathleen H. Pritchard*

13. WESTERN NEW YORK

Meeting Calendar
May 15, 1994
July 17, 1994
October 16, 1994

On January 16, 1994, we met at the Sacred Heart Social Center in Batavia, NY. Approximately 74 people attended this meeting— a remarkable turnout, since the Buffalo and Rochester areas were battling frigid temperatures.

A mart was in progress before the meeting. An added delight was a silent auction that proved successful under the direction of Don Aman.

Eleanor Gaidasz gave her report on the ramifications of setting up and managing a video library for the membership. Because of her thorough research and insight, money has been appropriated and approved for this project.

President DeBoy recognized the efforts of Paul Kostelny and Gartley Weller who used closed circuit video to show close-ups of portions of today's workshops. In January we usually offer a series of workshop programs. This year was no exception. We had three workshops and a ladies program.

"Bushings: Selection, Installation and Broaching," by Dave Cali, demonstrated three different methods. "Clock Spring: Cleaning, Installing and Determining Proper Length," by Lowell King. He demonstrated removing and installing open springs and springs in barrels and the use of a spring winder. "Cleaning a Watch," by Lee Bufano. Lee disassembled a watch, describing each step carefully, checking for any abnormalities in the functioning of the mechanism, pivots, jewels, wheels, hairspring, mainspring, cannon pinion tightness, and proper lubrication. "A Ballet with Bulls," by Eleanor Gaidasz discussed the history of bullfighting and the integration of music, artistry and the skill of the bullfighter. The ladies program was extremely informative and enjoyed by all.

"Bravo and Magnifico" to all those who participated in today's program and in making this meeting possible. *—Marie Bender*

18. INDIANA

Meeting Calendar
First Sunday—MART Months

Chapter #18 had its first meeting of the new year on Sunday, January 9, at the Children's Museum of Indianapolis. The social hour and mart began around 9:00 a.m. and was enjoyed by nearly 40 members. Coffee and Danish that have been made available to the members during the past few meetings again proved to be extremely popular with the members and the Minute Hands, who enjoyed the morning listening to a local veterinarian, Dr. Tim Howell, speak on the care of cats.

Chapter #13's speakers, left to right: Lee Bufano, Eleanor Gaidasz, Dave Cali, and Lowell King.

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The watch and clock contests featured the same criteria: the watch you carry/use the most, or the clock you depend upon the most. As usual, the story behind each piece was as important in judging as the item itself.

In the watch contest, Ron Emery took top prize with a fine Elgin "Convertible" (ca. 1880). Ron explained that the heavy gold case has offset hinges that make it easier to set through access to the lever. Joe Jones captured second with a Rolex from the estate of a Charles Burheigel who worked in the U.S. Department of State in the 1950's. Joe had restored this piece that had received "rough use" and had a broken bezel. Bob Wise was awarded third place for his Hamilton 912 with a "masterpiece case."

In the clock contest, Bill Bell won first place with a weight driven banjo from perhaps the mid-nineteenth century that has a solid mahogany case. Les Wise received second place money for a fire department clock manufactured by Seth Thomas. This 30-day Umbria model was originally in a Dayton, OH, fire station. Walter Hartin took third for his bracket-style chiming clock that was purchased at a flea market in 1982. Also awarded a prize for third place in a tie situation was Dan Stein for a modern pyramid alarm clock with voice reminder time and alarm that holds a "special" place in the heart of his wife Susan!

Our program was presented by member Bob Milleville who, with his wife Helen, has traveled around the country visiting various clock auctions and museums featuring musical devices and clocks. Bob provided a comprehensive videotape on those experiences that ranged from Maine through Missouri to the state of Washington. The tape not only illustrated many fascinating items, but also the owners/curators of these establishments— a few could be termed "characters!" Also featured was the July, 1992, Chapter #18 trip to the music box museum of Frank Coryia in Greensburg, IN. All in all, Bob's program provided a very enjoyable slice of life.

In the business meeting that followed, new members Bob Perry of Cambry and Lawrence Musgrave of Martinsville, were welcomed along with guests Dale Hepfer and Gordon Waligorski. It was announced by President Joe Morgan that long time member Bob Gruen is recovering from a heart attack he suffered while visiting in California.

Members were reminded by Lew Wise of the upcoming mart to be hosted jointly by Chapters #18 and #23 in Richmond, IN, this February 26th. Last year's inaugural event was highly successful with a large attendance. Treasurer Dan Stein reported that the results of the Mid-America were most gratifying and the coffers are healthy. *—Roger Boop*

19. FLORIDA SUNTIME

Meeting Calendar
Second Sunday—MART Months

The January 19th workshop had to be cancelled because of the flu that swept across Florida. The slide/tape programs were "Rare and Unusual Watches," and "Alarm Clocks are Collectible."

Our attendance was about average, some 400 people shopped around and bought or sold most of the day. We are all wishing Hank Fralix, our former Chapter #19 Secretary and a watch instructor at the Winter Park Vocational Center, the best. He has been in the hospital since Thanksgiving day. *—John R. Pryor*

20. MINNESOTA—OSCAR T. LANG MEMORIAL

Meeting Calendar
Third Saturday—MART Months

President JoAnn Snyder called the November 20th meeting to order with 130 in attendance. Three new members were introduced. Virginia Strobel announced that cards had been sent to Oscar Rossum at the care center, and to Tony Gohl, FNAWCC, for his 80th birthday.

A workshop was presented by Wally Kramer of the 3M woodworking club. He exhibited moldings made through the use of scrapers and demonstrated book matching of veneers. Wally has 30 years of experience and freely gave advice and tips on fine woodworking. He displayed about 12 inlaid decorative boxes, chests, and small pieces of furniture.

The program was presented by Mark Peer of the Mark of Time clock shop in Sarasota, FL. Mark presented slides and descriptions on some of the fine and rare clocks that have crossed his path in recent years. Mark frequently participates in the Regional marts and is co-chairing the auction at the 1994 NAWCC National Convention. Mark mentioned that he spends "25 hours per day" looking for high quality collectable clocks.

Some examples of the clocks he described are: French clocks for the Chinese market, open escapement, 20" high, solid bronze cases with 24 carat gold gilt (Japy Freres) and a crystal regulator having rhinestones around the dial (Marti). Several slides were shown of wood cased carriage clocks from France, ca. 1820, with silk thread suspensions. Other carriage clocks made for the China market were described.

Mr. Peer brought about 12 of his miniature carriage clocks for the display. Some of the specimens were: a French enameled 3" high Neuchatel shaped carriage clock 1900-1920, Swiss 3" high with independent sweep second hand and jeweled movement carriage clock, and a French enameled 1 1/2" high carriage clock with case.

Mark suggested that the Seth Thomas City Series of clocks was becoming very collectable. The diverse slide show covered a wide range and included a Majolica clock 1880-1890 with Gustav Becker movement, Royal Bonn with Delft decoration and a French movement. A Munger and Benedict serial number 11 of 10,000 made at the Auburn State Prison was described. The previous lowest serial number known was #78. The clock had winding holes near the 2 and 10, and the label was mounted on wall paper.

More entries were accepted into the 1993 Restoration Contest. George Lawson displayed an Ansonia school timepiece. The short drop case was in several pieces. Hal Robinson described an Empire clock that he had recently acquired— the top was missing, and John Ouellette will build a new case for an Ingraham calendar movement which has a 12" dial.

The following officers were elected for 1994-95: Treasurer, Lois Zimmerman; Secretary, Greg Smith; Vice President, Richard Zielike; and President, Dave Peterson.

The holiday centerpieces were distributed as door prizes to 15 lucky members. *—Bill Weast*

22. OLDTIMERS & FELLOWS (NATIONAL)

Editor's Note: The following is Part 3 of a series of reports taken from Henry Fried's presentation on the history of the early days of the NAWCC, which was given at the 1993 National Convention in Dallas, Texas. Part 1 appeared in the December 1993 BULLETIN.

The NAWCC has many facets and now over 150 chapters, but I believe that it is the personalities of this Association who have much to do with the growth, success and the stature it has achieved internationally. It was and is their dedication and strong commitment which has caused this organization to be by far the foremost in the world.

It would take a volume in itself to include all deserving of mention. However, some of these personalities should be discussed in our recounting of the history of this Association of almost 40,000 members and still growing.

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Professor Willis I. Milham, for example, a true founder, was Professor Emeritus of Astronomy at the Williams College in Williamstown in northeastern Massachusetts. In his study of astronomy he became equally engrossed in the study of time measuring instruments. He found its history fascinating and the makers equally so. To this he then applied his scholarly gift of research. His book, *Time and Timekeepers,* is a massive mine of information even today, and his authentic histories of American horology still hold up very well. His collection of clocks and watches was very good, and his collection of scrimshaw could be considered among the best, if not the best, in this country. His home reflected his love of these ancient things. His wife's collection of fans included one of silver upon which was an original painting by Watteau, the eighteenth century French pastoral painter. Professor Milham contributed many articles to the BULLETIN and went distances to attend the formative meetings of the NAWCC.

Bob Franks (#7) has been mentioned before. He held every office in the early years of the NAWCC. In college he was a top quarter-miler (51.0 seconds) and had a thorough education in the arts and engineering. He was a very visible person in the growth of the organization, yet seldom participated actively in any mart. He was equally active in organizing Chapter #22 and served for many years. He helped organize the NAWCC Lending Library. Later as the organization became stable, he returned to his earlier hobby of sailing.

Hamilton Pease of Providence, RI, was a most highly respected gentleman by all concerned with horology. His office in Providence on Empire Street was a very neat, interesting one, with a tower clock movement set up and keeping time. Hamilton Pease also had made a complete regulator, one of the first in the NAWCC to do so. He helped organize the Rhode Island Watchmakers' Association and attended many meetings of the Horological Society of New York. He also was an elder statesman of the Horological Institute of America and was somewhat responsible for the first article of mine in the BULLETIN which appeared under his name. The incident bears relating. At that time I was under a strong contract with the *Jewelers Circular Keystone.* Part of that agreement was that I could not use my own name on any article written by me for any other publication. So Hamilton agreed to put his name on my article for the BULLETIN.

When I visited Hamilton Pease in Providence one spring, he told me about the clock in the church in Kingston which had a most interesting gear train and a striking mechanism that had no gears but used the power from the going train to strike the bell. The clock couldn't strike and would I look at it. The clock was made by G.M. Stevens and

Professor Willis I. Milham

initially was mentioned in the April 1950 BULLETIN as one with "an ingenious striking mechanism of cams and levers." Climbing up the narrow helical staircase, I saw a clock with Howard-type construction and with a 9' pendulum. The driving weight of stone was about 12" x 10" x 72". The strike side was without gears and got its power from the going train, but with a clutch system similar to that found under the cannon pinions of ordinary clocks; but of course, much larger. This piece, I discovered, had lost its tension. A ball peen hammer on a solid surface restiffened its tension. I made some careful sketches of its unusual striking arrangement which I refined when I got back to New York. Because of my agreement with *J.C.K.* I asked Hamilton to be my guest ghost author and he gladly agreed. This article appears in the October, 1953, issue of the BULLETIN.

When the village heard the clock strike, all the townspeople came out to hear that old clock strike again. The church elders then invited me to their offices where they opened the safe and brought out a very thick book in which were the signatures of Washington, Franklin, Revere, and other notables of that period. They then turned to the current page and asked me to place my signature there as well. They then asked me to add my church affiliation. When I hesitated, Pease and the others insisted, so I added, "Hillcrest Jewish Center." Pease and I remained close friends until he passed away.

Currently, of the first 100 numbered Old Timers, only four original members are still alive. They are: Herbert Fleisher (#25), myself (#26), Dr. Anthony Benis (#67), and E.A. Battison (#72), who was long associated with the horological section of the Smithsonian Institution.

Dr. Anthony Benis, now 92 years of age, is still very alert. Dr. Benis' doctorate is in finances and he still maintains his offices in Manhattan as a financial consultant. He was very well educated and came from an old aristocratic Polish family related somewhat to the pre World War II Polish president of that name who was defenestrated, Balkan style, when Communism took over. Dr. Anthony Benis' horological interest was old European timepieces which he brought with him and of which he had a foremost knowledge and reputation.

Dr. Benis started The Answer Box of the NAWCC and ran this by himself for a number of years. His answers were never curt or short, but full, authoritive replies. Later he enlisted the help of Brooks Palmer, author of *The Book of American Clocks.* Still later I was asked to join that team. When illness in his family took a great deal of his time, he turned The Answer Box over to Palmer and myself. In later years I ran that department alone for a number of years. I eventually gathered a team composed of many of the best known experts in American clocks and clocks in general (Jesse Coleman, Huckabee, Dana Blackwell, Robert Williams, L. Treiman, and others.)

Mention has already been made of Jean Louis Roehrich (#19). Previous to the start of the NAWCC, Roehrich was President of the Horological Society of New York. Mention was made of his beginnings in Switzerland. After graduation from the Swiss Horological College he became attached to the Omega Watch Company in Switzerland where he served as a designing engineer. When he came to the United States he became head of the watch department at Cartier. When Henry Ford decided to create the Edison Institute in Dearborn on a very large scale, he visited Cartier to seek Roehrich's release to assist him in recreating the watch and the Swiss section of that vast restoration. Roehrich also assisted Ford in moving the McGill jewelry store where Ford had worked as a watchmaker in his late teens.

Roehrich spent much time for Ford in Switzerland seeking the ideal house of a typical Swiss watchmaker. This he found, and each brick, stone and detail was marked and dismantled for later successful reassembling in Dearborn. When Roehrich was finished with that task he was asked by the Swiss government to help plan and represent their pavilion at the 1939 World's Fair in New York. Roehrich invited many horologists to that pavilion. Nearby at the Elgin exhibit was fellow Horological Society of New York member Charles John's year-going striking clock with perpetual calendar and lever escapement, all hand-made by John who was a Bowman graduate.

Roehrich was one of the beginning four Directors of NAWCC and was very active in starting Chapter #2. Soon that chapter grew larger than #1, although later in starting. Another organizer of Chapter #2 was Jack

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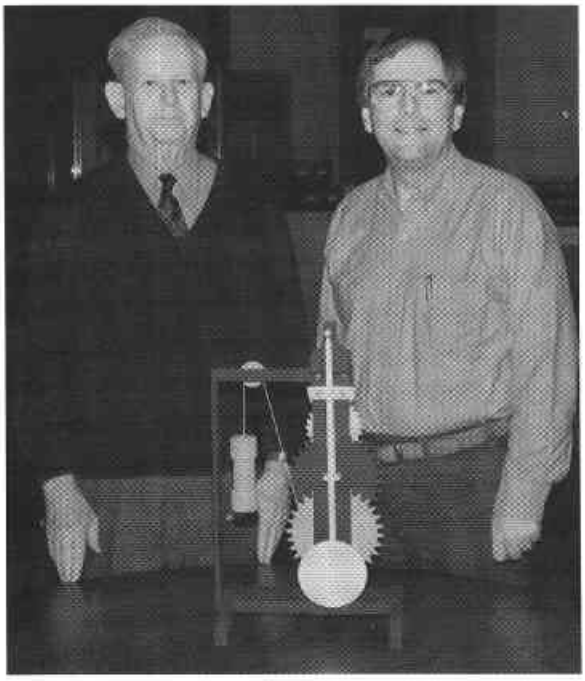

Chapter #27 members Jack Hairsine, left, and Jim Batson, designers and builders of the basic clock for the Historical Society of Delaware.

Fuchs (#9). Jack was then Librarian of the New York Bar Association. During World War II when he served as a translator in occupied Germany he saw some of the most unusual clocks which could be had for "peanuts." He wired his brother back home for some money and he assembled some very old, rare, sophisticated clocks as well as old, rare horological books. Jack Fuchs was a real scholar. —*Henry Fried*

23. BUCKEYE (OH)

Meeting Calendar
Moraine Civic Center, 11 a.m.
First Sunday—February, April, June, October, December

The December meeting of Chapter #23 was one of our best attended meetings. With NAWCC members coming from as far away as Chicago, and guests visiting from England and France, it was a cosmopolitan event.

Les Wise hosted the restoration contest where members photographed their timepieces in the "before" state and then brought the restored clock or watch to the competition. Ken Carlson won for his restoration of a pillar and scroll, while Les Wise was runner-up for his work on a large regulator. Both clocks were beautiful examples of what our NAWCC members are capable of producing.

As a prelude to the holiday season, we held a buffet-style potluck dinner following the mart and meeting. Holly and greenery decorated tables, and everyone enjoyed the delicious food prepared by our members, all of whom are wonderful cooks.

Topping off the buffet was a special cake. The design for the cake was created by Virginia Niehaus. The decorated sheet cake, provided by Earl Harlamert, commemorated the 50th anniversary of the NAWCC. Many thanks to Virginia Niehaus and Earl Harlamert. —*Tom Spittler*

Jack Hairsine of Chapter #27, and the tower clock in Wilmington's Old Town Hall.

27. DELAWARE

Meeting Calendar
Third Wednesday—Each Month Except July & August

The September meeting was the first meeting of the 1993-1994 chapter year. Jack Hairsine reported on the meeting that he and Jim Batson had with Anne Woodward, Director of the Historical Society of Delaware. Ms. Woodward asked if our chapter would take on several projects for the Historical Society. The first project is getting the Old Town Hall tower clock back to keeping good time. The chapter had restored this clock in 1986. The second project is to make a very simple clock-like device which can be passed around to young visitors so that they can see how a pendulum weight driven clock works. The third request was to give the works in some of the Society's tall case clocks much needed TLC. The chapter agreed to work on these projects.

Jim Batson presented an outline of the proposed programs for the new chapter year. Everyone liked Jim's proposals.

The October meeting program was from NAWCC entitled, "Watches by Patek Philippe." Jim Batson came with two novelty-type wooden works clocks that he found in the mart at a recent Chapter #1 meeting. One was Swiss-made and the other a possible German make. Jack Hairsine reported on the follow-up meeting he and Jim Batson had with the Historical Society of Delaware. The basic clock and tower clock projects are a go. Tall case clocks have an insurance issue that the Society will address.

At the November meeting Jack Hairsine reported that the Old Town Hall clock is keeping good time. The play in the gears between the works and the hands is such that a two minute variation can exist depending on the hands position due to their weight: slow when going up, fast when going down. The basic clock has been made and delivered to the Historical Society.

The next order of business was the nomination and election of chapter officers for the 1993-1994 year. Results are Jack Hairsine, President; Bob Matteson, Vice President; Jim Batson, Secretary; and Chuck Rambo, Treasurer. Bob Matteson also serves as Hospitality Chairman and Jim Batson does double duty as Program Chairman.

Our program for the meeting was Cuckoo clocks. Jim Batson did an excellent job of making us more knowledgeable about Cuckoo clocks. The basis for his program was material furnished by Karl Kochmann, author and publisher of several books on cuckoo and other Black Forest clocks. Several members brought clocks from their collections.

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Chuck Rambo showed an unusual shelf-type spring driven clock with trumpeters coming out of the door rather than a cuckoo. Joe Schumacher displayed an elopement theme clock, and Ed Milligan one with dancers and a music box.

December's meeting was a wrap-up of Jim Batson's program on Cuckoo clocks. Part of the program included slides from Mr. Kochmann's private collection. We wish to thank Mr. Kochmann for graciously furnishing these slides. —*John E. Hairsine*

28. LAKE ERIE (OH)

Meeting Calendar
Second Sunday—MART Months

Chapter #28 members attending the bi-monthly meeting January 9, 1994, at the Strongsville Holiday Inn were enlightened and entertained by Mark Fulmer of Hartville, OH, who delighted the members with his enthusiastic presentation on early tools used in the watch and clock industry.

Mark showed slides and described a Swiss precision drill press, an 1825 gear cutting machine, an early depthing tool, a hairspring vibrator, a Levine lathe, a child's milling machine, a bench micrometer, a Derbyshire lathe, a double tool cross slide, a milling attachment for a jeweler's lathe, a miniature grinder, a pivot polisher, a bow cutter and a dial vernier. After the slide presentation, Mark unveiled a shoe box from which he removed several of the tools that were shown in the slides. Everyone in the audience was amazed at the small size of each of the tools as it was removed from the shoe box.

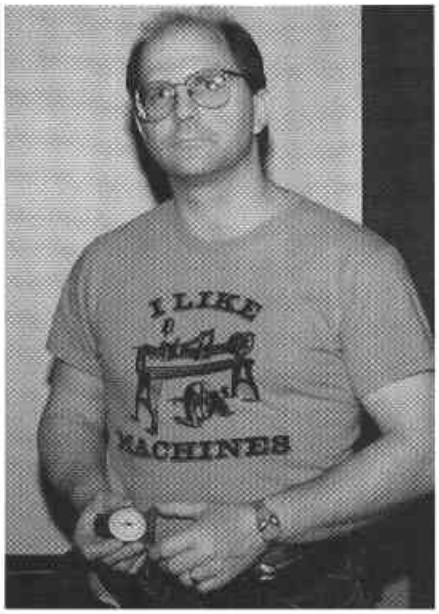
Chapter #28 members thanked Mark for taking the time to show and tell us about tools that most of us had not ever seen before.

The mart was attended by well over 200, and the luncheon was enjoyed by 65 members. At the business portion of the meeting the final details of the tenth annual North Coast Regional were discussed. —*Thomas Borkowski*

31. PACIFIC NORTHWEST

Meeting Calendar
Third Saturday—Each Month Except February, April, October, December

AUGUST: With only one word to report (PERFECT) regarding the picnic, the secretary almost neglected to do any meeting



Mark Fulmer displays one of the tools used in his presentation to Chapter #28.

minutes. That Sunday the weather turned perfect, the food was perfect (and lots of it), the company was perfect... the annual potluck picnic was just about perfect. Forty or more people gathered to share the friendship, fun, laughter, food, and clocks and watches.

SEPTEMBER: Past member and guest John Pohlpeter was introduced. Betty Chisum gave a Treasurer's report. President John Bloodworth introduced Chris Loders who will be the new Mart Chairman. John also has appointed new member Bill Butcher to develop a new member packet to help new members get acquainted sooner. There was much interest in the multi-chapter meeting. It will be good to see everyone there. The members present held a moment of silence for Winston Leavens, long time member of Chapter #31.

Before viewing the NAWCC Museum video, George Poole introduced several members who shared clocks they brought. Bob Hughes had several of his Ansonia and Lux clocks. The oddest was the "Mentor" of the Mentor Manufacturing Company of New York. The clock dial has marked off six "stations" and there are forty-eight little spokes around the outside of the dial. Each of the spokes has the numbers one through six around the circumference. No one was able to shed any light on this unusual clock.

Dick Vigal brought in a Parker alarm clock and an Oval Clock Company, New York, alarm clock. Al Pohlpeter brought several Darche alarm clocks, including one with a switch to turn on a light that illuminates the dial. That one has the original battery (dated October 25, 1899) still in the base.

Kevin Harding shared his prize possession which is a movement his father built, casting parts from wooden patterns. Bob Barta shared a Becker Westminster with two winding arbors. It was discussed that it is a three-quarter striking Westminster which is rather rare. George Poole brought a Waterbury Model Number 500, Westminster. The solid plates and size are rather impressive. Al warned that the movement is actually kind of crummy to work on with open springs that require wiring because C-clamps will not fit.

OCTOBER: John Bloodworth welcomed about 90 people to the Saturday evening meeting. There were about 25 to 30 members of each of the five chapters, with some overlapping memberships. The first part of the meeting was a show and tell about clocks on display. Tom Matthews showed an early 1700's Lantern clock with Turkish numerals that had never been converted from its short pendulum. Bob Hughes showed an update to his "Lux-Keebler Circus" slide show. He had since obtained three elephants including one with the clock in its stomach.

Bill Butcher presented a two-faced English fusee clock. Bill had made a very nice base to keep the clock from rolling around. George Poole shared his latest acquisition, a Junghans shelf clock from the 1920's (judging by its Arts and Crafts design case). Chris Loders brought a Sessions store regulator he had done some work on. The fine part of Chris' clock was the intact label on the back.

Mary Martin shared one of her 30-hour lever escapement small clocks. This one was black glass and brass and appeared very much an Empire design. Al Pohlpeter shared a six-minute timer for which there is no way to get anything but six minutes. There were no ideas on its use other than for six-minute speeches or possibly debates. Tom Darby had brought a Riley Whiting wooden works clock of about 1820. Bob Barta had a Big Ben and Baby Ben Westclox clocks in matching case designs.

John Bloodworth spoke on "The Cleaning and Repair of a Silas Hoadley Wooden Works Movement." John had cleaned the wooden plates, cleaned the gears, repaired the teeth in several gears, turned a couple of the pinion gears to provide new tooth faces for running, and replaced several ivory bushings in the clock. Along with the repair techniques discussed, John provided much history on Silas Hoadley and his clock manufacturing endeavors. There was spirited discussion on repair versus conservation, on the use of synthetic ivory versus trying to obtain old ivory, on what lubricant to use on ivory and other bushings (if any), techniques for determining what size weights to use if a clock has none, appropriateness of wire versus wood for pendulum sticks, and other topics.

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Sunday saw 140 people registered for lunch, the mart, and Bob Hughes' talk. George Poole orchestrated the silent auctions with some success. After lunch, John Bloodworth held a very short Chapter #31 meeting. Chris Loders conducted the raffle for which several additional prizes were donated.

Bob Hughes spoke on "The Federal Period in America." He had many good examples of Federal period furniture and architectural details and their direct translation into clock case designs and details. A lot of effort and research was evident in Bob's presentation. The slides were very good with lots of effort showing in getting the correct details. Hope we can encourage Bob to polish this into a new slide show for the NAWCC slide/tape library.

NOVEMBER: Vice President Bob Barta was Chairperson for the last meeting of 1993. Betty Chisum reported on the treasury, the multi-chapter meeting, and the regional. Betty routed a sign-up sheet asking for volunteers. Chapter #157 is developing a display. They will be contacting Chapter #31 members as needed. Chapter #31 will also be coordinating mini-bus shuttles to take visitors to see Bryson and Mary Lou Moore's collection.

Bob Hughes provided a recap on the multi-chapter meeting. Bob especially commended the efforts of Chris Loders for the successful raffle, John Bloodworth for negotiating the meeting arrangements, and Mary Hughes, Marianne Schug, Wilma Bloodworth, and Dorothy Skwark for so skillfully handling the lunch registration. All agreed the meeting was well worth any extra effort!

Under new business, Kevin Harding requested our assistance in his project. Kevin will compile a registry/catalog of historic clocks. These would be clocks generally within a day trip of the Portland area that the public has access to, starting with the one in the McLoughlin House in Oregon City. Kevin will do the word processing and compilation of all clocks members will report to him. It was thought this would be good information to provide new members and guests.

George Poole reported he had attended the 50th Anniversary Regional of Chapter #1 in Philadelphia. While east, George spent two days touring the NAWCC Museum and wants to encourage all to go there if they possibly can. George also complimented the architect's lovely work on the Museum tower.

For the first part of the evening's program, George Poole coordinated an impressive show and tell. George had a Japanese Draw saw which promises to be effective in case restorations. Tom Matthews brought a French clock with Sevres porcelain in the case. The movement was marked Mougin who was unknown. The clock was judged to be middle 1800's, about the same time as Japy. Bob Hughes brought a collection of Lux timers including the one in regular use by Mary. Among these were an oven timer from the 1920's, a Gas-Minder Minute Timer, and an EverHot from the Schwartzkopf Manufacturing Co.

Bryson Moore brought a Shell Oil Company advertising watch, a watch with a worm drive, and his father's key-wind, key-set Appleton and Tracy railroad pocket watch. Dick Vigal surprised several members with his very French clock from Seth Thomas. This was the Naples from the city clocks series. Dick also shared an early Parker alarm that he had just bought in a local thrift shop. Not only is this clock one of Dick's oldest alarm clocks, it also refutes his claim that he had not seen any loose Parker clocks in the northwest.

Don Skwark had a Benrus self-winding car clock that fit in the center of the steering wheel on a 1956 DeSoto. He is still looking for the steering wheel to attach the clock! Chris Loders had found an Atlas alarm clock by Gilbert that was still in the original box and had the original papers. Betty Chisum shared a lovely desk clock shaped like an artist's pallet set on an easel with a lovely hand-painted scene. Carl Brock showed a Lux animated windmill and an Ansonia numbered Black. The case was actually brown and molded from plastic. What a surprise when you looked inside that one!

Mike Robinson brought a Hamilton 23 stop watch that he shared before he began the program. Afterwards, he showed those interested the "phenomenal amount of monkey-motion to the stop watch part of the works." Mike led us through the slide program, "Getting Acquainted with Pocket Watches," and had several comments on the show. For one thing, he cautioned the use of the cleaning solution recipe which included alcohol in its list of ingredients. Mike noted that the alcohol might be bad since many watches had the pallet stones and roller jewels held in with shellac. The alcohol would soften the shellac, the jewels and stones would then find their way to the bottom of the cleaning solution container, and one would be left wondering why the watch no longer ran once it was cleaned! Someone asked about the meaning of "grades." Mike explained that grade meant different things to different watch manufacturing companies and that it might mean something different to one company at different times. He noted that for the Hamilton Watch Company grade generally defined the model of the watch. Another asked where to get any general how-to sort of books on watch repair. Mary Martin suggested looking for those World War II service training materials. *—Mary I. Martin*

32. SHENANDOAH VALLEY OF VIRGINIA

Meeting Calendar
Third Sunday—MART Months

Thirty-four members and guests attended our January 16, 1994, meeting, held at the Quality-Inn, Salem, VA. The mart was very successful with several clocks and clock parts changing hands.

President Richard Whipple conducted the business portion of the meeting, and he reported that the upcoming 1994 meetings will include a clock auction in March; the May meeting will be held in Lexington, VA; and the July meeting will be at member Irvin Rosen's new workshop near Middlebrook, VA.

Vice President Ruth Whipple then reported on our upcoming bus trip to the National Convention in Orlando, FL, February 2-6. We were treated to the newly produced videotaped tour of the NAWCC Watch and Clock Museum in Columbia, PA. *—Thomas C. Moore*

Chapter #33 guest speaker Tom Spittler, left, with President Drew White.

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33. TORONTO

Just over 100 members and guests were in attendance at our meeting on November 28th at Black Creek Pioneer Village in Toronto, defiant of the extreme weather conditions. Our guest speaker was Tom Spittler whose topic was, "The Evolution of Grandfather Clock Dials."

In his introductory remarks Tom pointed out that grandfather clock dials could be dated as accurately as grandfather clock cases and were equally as relevant in their development. The period summarized was from 1665 to 1865 covering the progression of styles and materials.

The first phase spanned the beginning of domestic clockmaking until 1725. This was the era of the square brass dial. The second phase, from 1725 to 1776, saw the introduction of the arched dial although various sizes of square dials continued to be made. By 1800 the demise of the brass dial was evident. The decline was greatly influenced by the introduction of the "white" dial which came into fashion around 1776 and flourished until passing into the age of factory production.

Aided by a wide selection of dials that chronologically extended well into the late 19th century, our speaker thoroughly examined the individual characteristics and great variety of configurations on each dial, stressing the most important features.

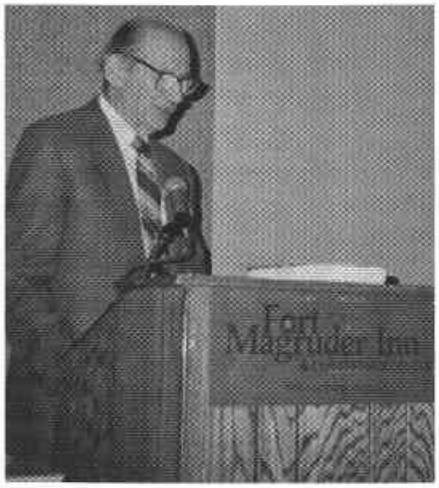
An auction completed a most interesting and enjoyable meeting. —*Charles Murray*

34. OLD DOMINION (VA)

Meeting Calendar
June 12, 1994
August 14, 1994
October 9, 1994
December 11, 1994

The December meeting of Chapter #34 was held on December 12 at the Fort Magruder Inn and Conference Center in Williamsburg, VA. An interesting NAWCC slide/tape presentation, "In the Works," by Henry Horne and Lloyd Porter, was shown.

After lunch and a short business meeting, guest speaker Mr. Robert Edwards presented a program on Railroad Timekeeping from 1830 to the turn of the century. Bob became interested in clocks about 1970. His retirement from Sperry Corporation provided an opportunity to further pursue his hobby. Bob spends an average of two days a week as a research volunteer at the Smithsonian Institution. He is a resident of Reston, VA, an NAWCC Museum Trustee, an NAWCC Fellow, and a member of Chapter #12.



Robert Edwards presents his program to Chapter #34.

It was nice to see our banner, created for the National Convention in Dallas last year, displayed on a nice stand made by chapter members John Miller, Ed Charlton, and Gene Brown. —*Lawrence M. Taylor*

36. HEART OF AMERICA (KS)

Meeting Calendar
Second Sunday—BULLETIN Months

Our regular meeting was held December 12, 1993, in the Merriam Community Center, Merriam, KS. Refreshments of coffee, Christmas cookies, and breads were enjoyed with the mart, silent auction and fellowship preceding the business meeting.

President Wayne Herrmann opened the meeting with 33 members and guests in attendance. Mary Jo Crowe, Danny Bishop Sr., and Tim Wilkerson were greeted as guests. Chuck Hill was welcomed as a new member.

The Secretary's minutes were approved, as was the Treasurer's report. The chapter was saddened by the death announcement of our member Don Hartman. Don will be missed by the members.

President Herrmann reported a good attendance from our chapter for the joint Missouri meeting, November 14, in Columbia, MO, hosted by Chapter #51.

A proposal regarding the election of our Vice Presidents was introduced. After discussion, a motion was made to change our bylaws to elect a first and second Vice President, rather than a Vice President from each state of Kansas and Missouri. The motion carried unanimously.

Rick McEnaney reported Missouri Senator Harry Wiggins is still pursuing the approval of a resolution by the state of Missouri to support the issuance of an NAWCC commemorative stamp.

Special recognition was given to Jo Ann Massey, Dorothy Knouse, Jacki Hamilton, and Ruth Herrmann for the bountiful refreshments of Christmas cookies and breads.

A suggestion to offer members some evening classes of clock repair and restoration was presented and discussed. Bill Dugan agreed to assist President Herrmann with planning informal training sessions. Bob Hill and Larry Boucher volunteered to assist with the sessions.

Our program was presented by Bill Dugan on what to look for when purchasing Pillar & Scroll type clocks as well as other wooden movement clocks. Several interesting points were made and discussed about authenticity and original parts versus replacement parts. This was a most informative program.

Show and tell items were of unusual clocks and restorations. Harry Bellis exhibited a large German cuckoo clock he had restored, assisted by Bob Hill. This clock had been exposed to a broken steam heat pipe for several days, causing severe move-

Left, Bill Dugan was the featured speaker at a recent Chapter #36 meeting. Right, Harry Bellis shows Chapter #36 members his beautiful old cuckoo clock.

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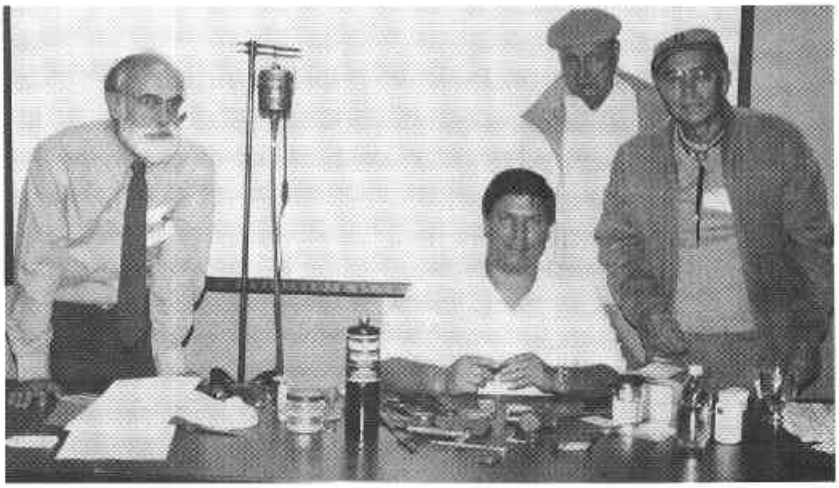

Chapter #37 members (standing), Tim Flower, Cliff Conn, and Paul Fehrenbach, observe speaker Bob Shymanik demonstrate watch case repair.

ment rust and corrosion, as well as extensive case damage. This clock is once again a beautiful and time keeping clock. Florent Wagner showed an unusual French or German (unmarked) desk clock of brass with a fan at the top of the clock. The fan blades were of celluloid. Wayne Herrmann exhibited a German anniversary clock made by Kaiser, circa 1953. The pendulum is a very detailed globe. The dial has the zodiac signs with a moving moon at the top of the clock.

A very enjoyable and educational meeting. — *Ruth I. Herrmann*

37. ALLEGHENY (PA)

Meeting Calendar
First Sunday—BULLETIN Months

Our December 5, 1993, meeting was held at the Holiday Inn, RIDC Park, Pittsburgh, PA, with over 90 members and guests attending.

After the active mart in the morning, we watched the slide program entitled, "American Pocket Watch Cases and Their Guarantees," by Mike Kahane. This was a very informative program, with excellent visuals, showing all the various watch case markings and construction details.

After lunch, Bob Shymanik of Mundelin, IL, presented his program on "Watch Case Repair Techniques," which he had presented at the 1992 National Convention in Chicago. Bob demonstrated the techniques on several damaged cases, with the added benefit of a video camera and two monitors so more people could see the procedures close-up. Everyone was amazed at the skills Bob had in restoring cases that looked impossible! — *E.E. Smeltzer*

38. MAUMEE VALLEY (OH)

Meeting Calendar
Second Sunday—MART Months

Our meeting of January 9, 1994, was called to order by President Jerry Wilhelm at 2:00 p.m. with 23 members and guests in attendance. Included were new member Roger Willmann and guest of Don LeDuc, Ray Wade. A hearty welcome was given each.

Ruth Jenkins has announced she is no longer able to print and mail the *Chronogram* and Ron Gaudette has volunteered to take over the duties. The chapter enthusiastically gives a big vote of thanks to Ruth in appreciation for the many hours and fine work she has devoted to preparing and mailing the *Chronogram* before each mailing date. As this task passes to Ron, we are confident it will be in capable hands.

By acclamation, the entire slate of current Chapter #38 officers was asked to continue in their offices for the ensuing year. Agreeing to do so are: President Jerry Wilhelm, Vice President Jim Waldron, Secretary Mel Pleiss, Treasurer Max Barricklow, and Program Chairman Francis Morey. The chapter appreciates their willingness to serve.

The chapter gave special recognition to Mildred Barricklow, Ruth Huss, and Phyllis Morey for continuing to prepare and serve refreshments at our meetings. As a thank-you we are seeking sainthood for them.

Ron Gaudette and Vern Burden combined efforts in providing a TV and VCR to show the video of the NAWCC Museum. It is a well prepared document and we thank Ron and Vern for arranging an interesting program. —*Melvin G. Pleiss*

41. MAGNOLIA (MS)

Meeting Calendar
First Sunday—BULLETIN Months

Chapter #41 held its regularly scheduled meeting at the Ramada Inn Metro in Jackson, MS, December 12th. The meeting was conducted by Chapter President James Mashburn.

The program included a slide presentation by Jerry Bangham, Ph.D., of his recent tour of European clock and watch museums. Dr. Bangham also presented a brief history of some of Europe's most famous clocks. The program ended with a door prize drawing. Mrs. Bearup was the lucky recipient of a videotape of the NAWCC Watch and Clock Museum. The prize was presented by former NAWCC President Fred Ingram. The Chapter #41 Board of Directors met immediately following the regular meeting to discuss business and preparations for the upcoming Southern Regional.

On a somber note, the Magnolia Chapter lost one of our faithful members and dear friends. Mr. Jimmy Reese passed away on September 25, 1993, after a brief illness. Jimmy will be sorely missed by our membership. We extend our deepest sympathies to his family and loved ones.

As usual, the meeting ended with buying and trading of clocks and watches in the mart. We also enjoyed delicious Christmas cookies and candy provided by some of the members.

Upcoming chapter events include the following: Chapter #41 will host the Southern

Chapter #41 Museum Curator James Holliday pictured with the display at the Agricultural and Forestry Museum.

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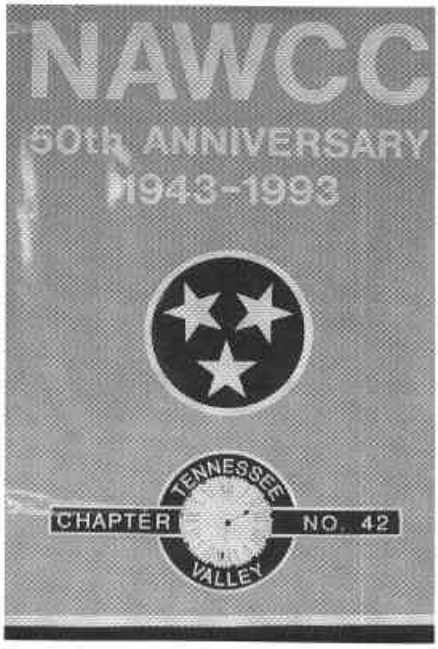

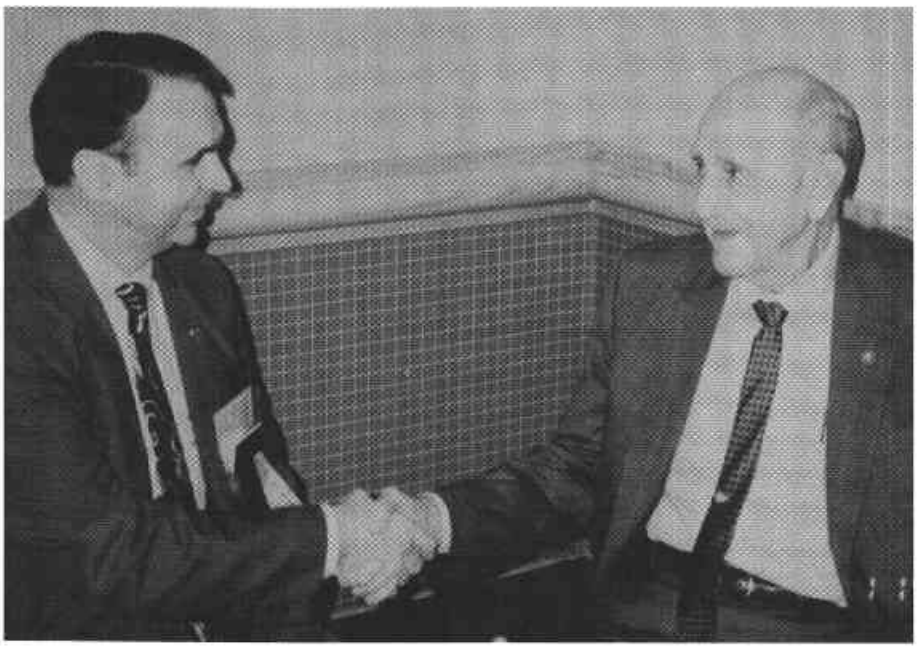

Left, Chapter #42's banner. Right, NAWCC President James Coulson congratulates Paul Gammell, Chapter #42 charter member, after presenting him with the NAWCC Fellow award at the 1993 Mid-South Regional.

Regional on May 12-14, 1994, in Jackson, MS, at the Ramada Inn Coliseum. — *Jeanetta Rains*

42. TENNESSEE VALLEY

Meeting Calendar
First Saturday—BULLETIN Months

Chapter #42 has been active as usual in recent months. At our October 2nd meeting, which was a luncheon at the Harriman Holiday Inn, we gathered to hear guest speaker Joseph M. Brown, the district representative for the Hamilton Watch Company, speak on "Hamilton Watches." Several Hamilton watches were brought for display and trade.

Our December 4th meeting continued the topic of watches as Gene Greenwood spoke on "Clocks to Railroad Watches," and again, many members brought railroad watches to complement the program. Both meetings were well attended, with nearly 40 members and guests in attendance, and plenty of items for display and the mart.

Nineteen-ninety-three marked the 30th anniversary of our chapter, which was started by seventeen individuals way back in 1963. We have taken this milestone as an opportunity to not only celebrate our birthday, but also to remember where we came from, and plan for our future. Of the seventeen charter members, three have continued to be active members through the years. We are not only thankful for their support, but also for the current members and the many new members who have joined us in recent months. Indeed, we have had several new members join our chapter lately and we invite any local NAWCC members to visit our meetings too.

We are proud of several of our members who have been recognized with National awards recently. Paul Gammell and Kermit Duckett have both been presented with Fellow awards, and LeRoy Glasscock, Romer Volk, and Paul Gammell, our three charter members, were each presented with Certificates of Appreciation. And of course, we are also proud of James H. Coulson, long-time chapter member and former officer, who is our latest NAWCC President. —*Paula Gammell*

43. CREOLE (LA)

Meeting Calendar
Second Sunday—MART Months

Chapter #43 gathered for its first meeting of the new year at the Howard Johnson Hotel, Metairie, LA, on January 9, 1994. There were 78 members in attendance as President Bill Carrier called the meeting to order. Creole extended a warm welcome to guest Edward Knoll who just recently joined NAWCC.

Our program was a showing of the extremely excellent and well-produced video of the Watch and Clock Museum of the

Newly elected Chapter #43 officers, left to right: Bill Carrier, President; Judy Bonura, Secretary, Marylynn Judlin, Treasurer; and Steve Burgamy, Vice President.

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NAWCC. The video provides a great opportunity for anyone who has not been able to travel to Columbia, PA, to "visit" our National Museum and see and learn about all the interesting horological items on display.

Joel Dunipace, assisted by Nick Bonura, gave an interesting demonstration on the use of a jeweler's lathe. Judging by all of the activity around their table, their presentation was well received!

Our chapter is busy selecting a site for the 1995 Southern Regional. All arrangements will be reported once they are finalized. Creole is also eagerly awaiting the 1994 National Convention in Orlando this February. Many members will attend. We have arranged a block of mart tables together and will have them colorfully decorated to represent Creole Chapter #43.

Creole member Monroe Lee will make a stand to hold our chapter banner that was made in commemoration of the 50th Anniversary of the NAWCC in 1993. We will then be able to display our banner at our meetings, National Conventions and Regionals.

Door prizes were awarded and refreshments served. The meeting was then adjourned. —*Judy Bonura*

46. KEYWINDERS OF ARIZONA

Meeting Calendar
Last Saturday of Every Month
Except July & August

Our November meeting was held at Denny's Restaurant in Surprise, AZ. This was the first meeting at Denny's and it was generally agreed that the room offers advantages over the former meeting place in that it affords more privacy and the ability to better darken the room for slide presentations.

After a noon luncheon, President Walter Chase called the meeting to order at 1:00 p.m. and introduced three new members who were attending for the first time.

James Bartell, Chairman of the Bylaws Committee, reported on the work done by his committee. The revised Bylaws were approved by the membership. Copies of the revised version will be distributed at the next meeting.

Bill McKiernan provided the program by presenting an interesting and informative talk on the general topic of where our concept of time comes from. He traced the interest in timekeeping from crude determination of time intervals to the present precise timekeeping now provided by the National Institute of Standards and Technology (NIST) in Boulder, CO. The cesium atomic clock which governs modern timekeeping has an accuracy of one second in 300,000 years.

Chapter #46's banner.

He pointed out that there is no record of how or when attempts to accurately measure time began, but the monks in the early monasteries had to get up at all hours of the night for their prayers and needed something to tell them the hour. They had no accurate, practical devices for nighttime use when the weather obscured the stars and the moon.

The real advance in timekeeping began with the needs of navigation and the requirement to determine the positions of ships at sea. Although latitude could readily be determined by measuring the altitude of Polaris, the north star, there was no way to know the longitude except by dead reckoning, and that was woefully unreliable. The navigator could know when local noon occurred at his ship by measuring the altitude of the sun, but that did him little good unless he also knew the exact time at Greenwich, England, at the same moment. Each hour difference in time between the two locations meant fifteen degrees of longitude. Ways of measuring this time difference led to the development of more and more accurate timepieces, until we now have the cesium atomic clock. —*Frederick Wallig*

48. KING COTTON (TN)

Meeting Calendar
Second Saturday—MART Months

The regular meeting of Chapter #48 was held in January at the Junior League office. Refreshments were provided by generous members who helped to warm a cold January afternoon.

Our first meeting for the 1994 calendar year was begun by having outgoing President Ed Hull hand the gavel to our new President, Robert Roy Good. Robert expressed his and the chapter's appreciation to Ed and the other officers and committees for an interesting and productive year.

The mart consisted of several American shelf and kitchen clocks and "fraternal twin" banjo clocks made by Sessions. These banjos were identical except one was time and strike while the other was time only, thus the term "fraternal."

Show and tell included several military timepieces provided by Bill Huckaba, several novelty clocks including one no member had ever seen or heard about, and a new Seth Thomas table clock very similar to an old one. The unusual novelty clock was a fox with rotating eyes that displayed the time. The case appeared to be hand-carved wood. Many of the members had seen dogs, but this was the first fox for everyone to see. The new Seth Thomas case was shaped like the old and was made of wood but had a quartz movement. The old Seth Thomas was unusual in itself because it struck ships' bells. At one time it must have belonged to a seafarer. Charlie May brought the fox and the Seth Thomas clocks.

The primary subject of business was preparation for the annual regional to be held in Memphis, April 7-9, 1994.

The chapter is attempting to restore an old tower clock at the First Methodist Church located in what was the heart of the early business and market district of the young city of Memphis. In keeping with this project, the Program Chairman Norris Avey presented a slide show and talk by Joseph G. Baier on the Tower Clocks of America. The Chairman of the Restoration Committee, Curtis Keech Jr., reported on the status of the project and discussed similarities in the works of the Methodist Church clock and certain clocks in Dr. Baier's slides.

The meeting adjourned to finish off the refreshments and converse on topics of mutual interest.

58. GREAT PLAINS (NE)

Meeting Calendar
Second Sunday—MART Months

The January 9th meeting of Chapter #58 was again held at Gaeta's Restaurant in Omaha, NE. The restaurant is always closed to the public on our meeting date. This makes an ideal place for our meeting. We never have to worry about our mart items being disturbed, nor patrons wandering through our group.

Article continues here.