

Railway & Locomotive Historical Society, Inc. **Southeast Chapter** Newsletter No. 122 – December 2010

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apparent that complete with the rest of the nation, an impossibility so long as differences in gauge (Continued)



The days they changed the gauge – continued 2:

At first, the problem of interchange had been temporarily relieved by laboriously loading freight from one car to another at interchange points between railroads of different gauges. But the growing trade between the South and the rest of the nation soon required faster and less costly methods. A crude form of containerization was devised, with freight remaining in the same car throughout the journey-with the wheel trucks being changed at interchange points as necessary. Soon, as a contemporary writer pointed out, "not a prominent point could be found on the border without its 'hoist' and acres of extra trucks."

Variety in gauge size wasn't uniquely a difference between North and South. In 1871, no less than 23 different gauges existed in the United States, ranging in width from three to six feet. Within the South, the state of North Carolina prescribed by law a gauge of 4 feet 8 1/2 inches to encourage a traffic flow to its own ports, rather than those in Virginia or South Carolina (each of which were primarily served by rails spaced five feet apart). Goods going between Virginia and South Carolina had to go through at least two interchanges on the way.

It was clearly a condition that could not continue. In 1884, the Illinois Central, which operated in both regions, found it necessary to begin changing the gauge of its lines in the South to conform with the northern width. The need to compete soon forced the Mobile and Ohio to change, putting direct pressure upon the Louisville and Nashville and the Cincinnati Southern to match the improved service of their competitors.

In effect, the pressures of free competition had provided a catalyst, and the stage was set for changing the gauge of practically every road in the South, a change that ultimately, would be accomplished in less than 36 hours.

February 2-3, 1886, marked the first step. As agreed the previous October at a meeting of the Southern Time Convention, operating officers of the South's railroads met at the Kimball House in Atlanta in a "convention called for the purpose of fixing the date and arranging details for change of gauge."

E. B. Thomas, general manager of Southern's predecessor, the Richmond & Danville, served as chairman of the committee charged with determining the date of the gauge change. On the convention's first day he reported: "That Monday, May 31st, and Tuesday, June 1st, be designated as the days for general change of gauge. Lateral lines may change exterior or subsequent to the dates named by arrangement with connections."

Announcements:

Our regular meetings are the 2nd Thursday of the month @ 6:30 PM, in the CSX Bldg., 500 Water St. Jacksonville, FL. December 18/19th - Tampa Train show

February 12th - Jacksonville Train Show, Prime Osborn Center

June 2-5, 2011 - R&LHS Annual Convention, Elkins, WV (Cass, Durbin Rocket)

SOUTHEAST CHAPTER OFFICERS

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The days they changed the gauge – continued 3:

On the members of three convention committees Transportation, Roadway and Machinery, fell the burden of planning for the tremendous task just four months away. All motive power and rolling stock would have to be removed from the affected tracks, wheel spacing would have to be adjusted to fit the new gauge, and logistics for feeding and equipping a virtual army of workers would have to be carried out with military precision.

But the most important decision of all involved the exact width of the new gauge. Although the nation largely had adopted the 4-foot 8 1/2-inch width, the Pennsylvania Railroad, with which many of the South's roads required an interchange, used a 4-foot 9-inch gauge. For this reason, and owing to minor engineering difficulties encountered by the 4-foot 8 1/2 -inch width, the convention had voted to adopt the Pennsylvania gauge as its standard.

One farsighted man rose on the convention's second day to ask that the gauge-size decision be reconsidered. He was John C. Gault, general manager of the Cincinnati, New Orleans & Texas Pacific, and he made some persuasive arguments:

"I deem it of greatest consequence that the standard gauge of the country could be adopted by the Southern Roads. This is the first opportunity that the Southern roads have had to correct the unfortunate mistake made when the five foot gauge was adopted, and in correcting it we should take such action as will result in solving the question for all time. I insist upon saying "to this convention that the adoption of a 4 ft. 9 in. gauge is only a partial correction of the mistake." Nonetheless, the convention chose to go ahead with a standard gauge of 4 feet 9 inches.

With the convention's end, four months of intense activity began. Differing in some specifics between the various roads, plans were worked out in minute detail for reducing the width between rails, and between the wheels, by 3 inches.

Only one rail would be moved in on the day of the change, so inside spikes were hammered into place at the new gauge width well in advance of the change, leaving only the need for a few blows of the sledgehammer once the rail was placed. As May 31 drew near, some spikes were pulled from the rail that was to be moved in order to reduce as much as possible the time required to release the rail from its old position.

Rolling stock, too, was being prepared for rapid conversion. Contemporary accounts indicate that dish shaped wheels were provided on new locomotives so that on the day of the change, reversing the position of the wheel on the axle would make the locomotive conform to the new gauge. On some equipment, axles were machined to the new gauge and a special ring positioned inside the wheel to hold it to the 5-foot width until the day of the gauge change. Then the wheel was pulled, the ring removed, and the wheel replaced.

To shorten the axles of rolling stock and motive power that could not be prepared in advance, lathes and crews were stationed at various points throughout the South to accomplish the work concurrently with the change in track gauge. A few days before May 31, all roads began clearing cars from their lines and reducing the gauge of all areas of track that could be freed of cars and engines.

Finally, in the early morning hours of May 31, the concentrated work began. Men worked in crews of various sizes charged with various goals, some given specific mileages to cover, others under instructions to begin at a specified point and work in a specified direction until they met another crew working toward them.

Along thousands of miles of track-approximately half of which was operated by predecessors of today's Southern Railway System, spikes were pulled, rails moved in to the new gauge, and more spikes hammered into place. At shops and rendezvous points throughout the South, motive power and rolling stock were being altered to fit the new gauge. Wheels of cars were moved in, steam engine brakes and tires were altered, and the screeching of axles being narrowed on lathes joined the ringing of heavy hammers.

The days they changed the gauge – conclusion:

In less than three days, standard-gauge trains were serving the South. "The work was done economically," an article in the Journal of the Association of Engineering Societies pointed out, "and so quietly that the public hardly realized it was in progress. To the casual observer it was an every-day transaction. It was, however, a work of great magnitude, requiring much thought and mechanical ability. That it was ably handled is evidenced by the uniform success attained, the prompt changing at the agreed time, and the trifling inconvenience to the public."

And the Richmond & Danville told its Annual Report readers: "By agreement and prearranged concert between the Southern Roads operating the 5 foot gauge tracks, about June 1st, the gauge of all the 5 foot tracks of this Company's lines was changed to the standard adopted of 4 feet 9 in. This important work was effected under the direction of the General Manager with great promptness and entire exemption from accident or damage, and with hardly a perceivable interruption in the regular movement of traffic throughout the entire connection of this Company's Roads."

Horatio Allen had written in 1884 that his use of the 5-foot gauge for "the South Carolina Railroad determined the gauges of the Southern road, which continues of that gauge to this time; but it is to be anticipated that the commercial advantages of uniformity of gauge will eventually narrow the gauge down to the coal mine gauge of four feet eight and a half inches."

The final half-inch reduction, though, had to wait for the formation of the Southern Railway Company. Then, because of the closeness of the South's 4-foot 9-inch gauge to the standard gauge, it was accomplished in the normal course of track maintenance and repair. It completed the job begun many years earlier.

But the real drama lasted only two days, two days in which the fields and villages of the South echoed the clanging of countless hammers driving thousands of spikes, the days they changed the gauge.

Southeast Chapter Election Notice:

During the September, 2010 business meeting, Bill Howes, Art Towson and Paul Newtson agreed to be our Nominating Committee for the 2011 election process. They presented a slate of officers at our November meeting.

The slate of nominees is as follows:

John Leynes - chairman,

Paul Newtson - vice-chairman,

Robert Van Nest - treasurer,

Bill Howes - secretary.

Since we had just four people running for the four offices, they will be installed using the Acclamation by Proclamation process at our January, 2011 meeting.

Meeting of October 14, 2010

The meeting of the Southeast Chapter of the Railway & Locomotive Historical Society was called to order at 6:45 pm by vice-chairman Jim Smith. There were 10 members present.

Secretary's Report: The minutes from the September meeting were read and approved by the members that were present.

<u>Treasurer's Report</u>: Robert Van Nest reported that the savings balance is currently \$4,818.36. There is \$137.47 in the checking account. In addition to this amount, we have the two CD's. The treasurer's report was read and approved.

Committee Reports:

- Newsletter: The December issue of *Southeast Limited* is being worked on.
- Trip Committee: The group discussed pursuing an upcoming trip to Tampa Bay on Amtrak. March 12 & 13 2011 was discussed as possible dates.
- Website Committee: John Leynes revamped our Southeast Chapter website
- Nominating Committee: The nominating committee consists of Paul Newtson, Bill Howes, & Art Towson. The committee will present a slate of nominees at the next meeting.

Old Business:

- The grant to provide financial funding to preserve the ACL 1504 locomotive was declined. Bill Howes reported that there is a need to at least perform minimal cosmetic work to the locomotive, however there is not an organization spearheading that effort.
- Ed Mueller continues to develop his new DVD on railroad music. A motion was passed to endorse this project. Furthermore, Jim Smith will investigate if John Leynes is willing to decrease his production costs or if members are willing to donate to this cause.
- Chapter Banquet: Bill Howes will investigate if Larry Shughart is willing to host our annual banquet.
- Model Display & Garage Sale: For the February 10 meeting, members are asked to bring in model displays as well as items to sell & buy.
- Jim Smith will make a presentation to the Palatka Railroad Preservation Society on November 16.

New Business:

There is no new business.

Announcements:

- October 16/17 Palatka Railfest.
- December 18/19 Tampa Train show.
- February 12 Jacksonville Train Show.
- February 26 Larry Shughart outing.
- The R&LHS Convention is June 2-5, 2011.

Jim Smith presented a Personal Railroad Experience about "Speed" on the railroad.

Fred Brechler showed a video on the 20th Century Limited.

Respectfully Submitted, Paul Newtson

Meeting of November 11, 2010

The meeting of the Southeast Chapter of the Railway & Locomotive Historical Society was called to order at 6:30 pm by vice-chairman Jim Smith. There were 10 members present.

Secretary's Report: The minutes from the September meeting were read and approved by the members that were present.

<u>Treasurer's Report</u>: Robert Van Nest reported that the savings balance is currently \$4,818.56. There is \$137.47 in the checking account. In addition to this amount, we have the two CD's. The treasurer's report was read and approved.

Committee Reports:

- Newsletter: The December issue of *Southeast Limited* is being worked on. Material for the newsletter is always in demand.
- Trip Committee: The group plans to take a trip to Tampa Bay on Amtrak, March 19 & 20, 2011 Will go via Amtrak, leave Jax on #91 7:15AM, return on #92, Leave Tampa 5:17 PM, arrive Jax 10:37PM.
- Website Committee: John Leynes & Cliff Vander Yacht will discuss information regarding moving the website forward.
- Nominating Committee: The nominating committee consists of Paul Newtson, Bill Howes, & Art Towson. The slate of nominees is as follows: John Leynes chairman, Paul Newtson vice-chairman, Robert Van Nest treasurer, and Bill Howes as secretary.

Old Business:

- Bill Howes reported that there was a meeting recently regarding the desire to obtain an additional grant that is available for restoration of the ACL 1504 steam locomotive. \$2000 was previously committed by individual donors associated with the R&LHS and the chapter would cover an additional \$1000. Members are willing to continue a \$1000 donation if needed.
- Ed Mueller has created his new DVD on railroad music. John Leynes has agreed to create the DVD's for \$250, which will be covered by our chapter.
- Chapter Banquet: Larry Shughart is willing to host our annual banquet on Saturday, January 15 from 3-5 p.m. This will be a pot-puck luncheon.
- Jim Smith will make a presentation to the Palatka Railroad Preservation Society on November 16 regarding his work with the Talleyrand Terminal Railroad.

New Business:

The organization would like to have a table at the upcoming Jacksonville Train Show.

Paul Newtson has invited members to his home on Friday, January 21 to see a model train display.

Larry Shughart is selling his 6 X 10 model railroad table.

Upcoming Programs:

- December 9: Program by Bill Walker on the CNJ. Larry Shughart will provide a PRE.
- January 15: Banquet at Larry Shughart's home.
- February 10: Model Display & Garage Sale. No PRE.

Jim Smith presented a Personal Railroad Experience on RR books. Bill Howes spoke on C&O Car Ferries.

Respectfully Submitted, Paul Newtson