

THE ORDER BOARD

A Publication Of The

Cumberland Division SER-NMRA Inc

Tennessee Central Railway Museum

Nashville Chapter NRHS

Vol. 20 Issue 7

Cumberland Div/TC Ry Museum Donations

Robert M Adams (Madison, WI)- TC Ry office document rubber stamp (Mr. Adams read **Ralcon Wagner's** article on the Museum and mailed this item to us!)

Frist Foundation- \$2,400

O.D. Glaus- 36 softcover and hardcover railroad books; 31 framed railroad prints/photographs; 5 unframed RR prints; photocopy of TC Annual Report for 1936; original copy of TC Annual Report to the ICC for 1961; photocopy of TC Ry. stock certificate, dated 12/15/52; 8" X 12" color print of TC business car #102, in service in 1960s

DeLoey Nelms- Cast iron RR crossing sign from C&O, 1946, and a car knocker's tool

Charles Owens- book - "Outlines of American Railway Transportation" (1915); several issues of "Narrow Gauge & Shortline Gazette" magazines

Hugh Nichols- \$100 for Museum maintenance & upkeep

Program Notes

July- Videotape from the Division/TCRM video library.

August- Airbrushing II Hands-On clinic

July Meeting Host Committee

Cecil Tidwell	Steve Tomblin	Eddie Tomlinson
Bill Tucker*	Gene Turnage	Allen Tuten
John Upham III	Phil Utley	Ralcon Wagner
Paul Walker	Ken Watts	Alan White
Rita White	David White	Mike White

* Host Committee Chair

Dinner on the Dock in July!

To celebrate the hot weather and the construction of our new dock covering, we will have a hamburger/hot dog cookout at the July 26 meeting. The cookout will be dockside from 6:15-6:45 and out meeting will start at 7:00. The museum is providing the dogs, burgers and buns; the host committee is providing the drinks and fixings. Come and enjoy! Just one more benefit of being an active member of the Museum!

Year 2001 Schedule

July 20-22 HO RR Setup- TN KY Threshermen Show Adams TN

Sep 7-16 TN State Fair- HO scale Module RR Setup

Sep 8 Excursion Train Watertown Country Hoedown

Sep 27-30 L&N Historical Society Annual Convention Nashville

Sep 28-30 Mid-South Live Steamers Meet Columbia TN

Sep 29 Excursion Train L&N Historical Society Lebanon

Oct 6 Excursion Train Watertown Train Robbery

Oct 13 Excursion Train Watertown Fall Flea Market

Oct 18 Excursion Train deadhead to Cookeville

Oct 19 Excursion Train Cookeville School Trips

Oct 20 Excursion Train Cookeville to Nashville

Oct 27 Excursion Train Nashville to Cookeville

Nov 3 Cumberland Div Fall 2001 Division Meet

Nov 10 Excursion Train TSU Special to Cookeville

Dec 1 Excursion Train Lebanon Victorian Christmas Trip

Dec 8 Excursion Train Watertown Santa Trip

Dec 15 Excursion Train Watertown Santa Trip

HO Modular RR Setup in Adams TN

Once again the Cumberland Valley Model Railroaders will be setting up an HO scale modular RR at Adams TN as part of the TN-KY Threshermens Show on Friday through Sunday, July 20-22. **Allen Hicks** is coordinating the setup with participation by **Marvene Bilbrey, Wayne Frey, Frank Holt, Bob Hultman, Quincy Styke III** and **Bob Swanner**. Thanks to **Bob Swanner** for towing the station trailer up to Adams and back and to **Wayne Frey** for providing hauling capacity for **QS III's** modules.

GATS Show Report

Another GATS Show has come & gone in Nashville's Municipal Auditorium. New this year was the Show being on the Arena floor, up from the basement in previous years. According to GATS, the Auditorium management has promised the basement will be as well-lit as the Arena floor was for this Show. Both the **Nashville Ntrak** N scale modular RR and the **Cumberland Valley Model Railroaders/Cumberland Division SER-NMRA** HO modular RR were on the Arena floor. **Nashville Ntrak** took 3rd place in the Layout Contest (\$200) and the HO RR took 4th place (\$100) in the Contest.

Hobby Shop/Souvenir Update

Reproductions of the 1912 NC&StL Ry calendar have been ordered for sale in the TCRM hobby shop and in the excursion train souvenir car. One of these is framed and on the wall behind the N scale layout in our meeting room. Price should be around \$20.00 each (unframed).

Cumberland Division November Meet

Mike Curtis is general manager for the Fall 2001 Cumberland Division Model Train Show/Division Meet to be held Saturday, November 3, 2001 at Our Willow St building. Please let Mike know how you will help make the Show/Meet a success. Mike's phone # is 615-849-8595, E-mail macurtis@home.com

NEXT MEETING Willow St Building Thursday July 26, 2001 7:00 PM

July 4 Cookout/Train Ride

Don Gage wants to thank all who participated in the July 4 cookout held at the end of track down at the Shelby St bridge before the fireworks display. Foods, fixin's, drink, ice, etc all made it to the right place for an enjoyable time for all. Thanks also go to **Frank Holt** and **Ron Macaluso** for helping with the cooking tasks. Also, thanks go to **Terry Bebout** and the excursion train crew for the free rides for Museum members and family. It was a great day and another example of the benefits from being a member of the Museum.

New Members

Andrew Austin, Ashland City TN

John Hermon, Gallatin TN

John & Christine McCarthy, Old Hickory TN (Family)

Mike White, Madison TN (Family)

Please welcome these new members as they join in helping make our organization even better in the future.

Bilbrey-Ford Wedding

James Bilbrey and **Twila Ford** are getting married Saturday July 28, 2001 in Pigeon Forge TN! CONGRATULATIONS, James & Twila! **Marvene & Brenda Bilbrey** will be in Pigeon Forge preparing for the wedding and will not be at our Thursday night meeting. You can send your best wishes to **James & Twila** at 644 Monte Carlo Dr in Antioch TN 37013-4431.

Membership Cards

If you're a member and have not had your photo taken for your membership card, please call **Phil Utley** at 615-754-2073 or E-mail him at railsystems@home.com to arrange for your photo shoot.

E-mail Addresses

Have E-mail and want to receive Cumberland Div/NRHS/TCRM updates & news via E-mail? Well, send your E-mail address to hultman@nashville.com & you'll be added to the E-mail group maintained for these organizations.

Sad News

Geraldine Caldwell, mother of long-time Cumberland Division/TCRM member **Gene Caldwell** passed away May 26, 2001. I apologize to **Gene & Carolyn** for not having this information in the June meeting notice. Expressions of sympathy should go to their address- 5009 Pebble Creek Dr in Antioch TN 37013.

Sick Call

Jack Sircy recently had a heart pacemaker inserted, but he's not letting that slow him down any. Send wishes for a full recovery to **Jack** at PO Box 192 Madison TN 37116-0192.

SER Convention Followup

For those wanting to keep up with developments regarding the SER 2002 Regional Convention in Greenville SC, check out this Website- www.TextilExpress.org

Threaded Fasteners

By Bob Swanner

A screw is a screw, is a screw. Well, is it? How can you tell what size you have, or what size you need? There are two main types of fasteners, **U.S.C., United States Customary**, measured in inches and **Metric** measured in millimeters. The USC was initially formulated by the **Society of Automotive Engineers, SAE** The Metrics were formulated by the **International Standards Organization, ISO**. A definition that seems peculiar to me is a screw is a screw regardless of diameter, length, head size or shape. Hex head, Phillips, slotted, Torx, square drive are all screws unless they have a nut screwed on them- then they become a bolt. Well, this definition comes from the guys that make the things, not me. Whether you are measuring a metric or USC screw the measuring sequences are the same. First is the **diameter**, second is **Thread Pitch**, & third is **length**. Diameter is pretty much self explanatory. An easy way to measure diameter is with an open end wrench around the body of the screw or a handy caliper, micrometer or vernier. Thread pitch is a bit harder but not much. A USC thread is how many threads are in one inch or how many revolutions, [360 degrees], is the bolt turned to move one inch. 16 threads per inch means the screw is turned 16 360 degree revolutions to move exactly one inch. Metric thread pitch is the distance between two adjoining peaks, measured in millimeters, or one 360 degree rotation.

So: 2-56 x 1/4, 3/8-16 x 2, 1/4-20 x 1/2 4-40 x 3/4 are all USC screws M 6-1.5 x 40, M 2-0.75 x 10, M 12-1.0 x 45 are all metric screws. The "M" designation may or may not be used on metrics. Then what are 2-56, 3/8-16, 1/4-20, & 4-40? As well as: 6-1.5, 2-0.75, & 12-1.0? They are all **NUTS!** Screws have strength marks on their heads. USC uses lines, three lines equals a grade 5, six marks equals a grade 8. Zero lines equals a grade 1 or 2. Metric uses numbers like 9.9 or 13.9. The higher the number, the stronger the screw. Whenever replacing a screw it is imperative to use same or greater strength screws & nuts.

USC seldom uses additional nomenclature but here it is for the record. UNC 3/8-16 x 2 A 3 United National Coarse, or UNF, fine, or UNEF, extra fine. The "A" after the 2 is male thread, a "B" is female thread. If you see a "B" then you won't see the length because it's a nut. The 3 after the [length] 2, is fit. 1 or 2 or 3. 1 is Agricultural fit, the threads are so loose the nuts are a big, rough, cast, square that rocks on it's threads & can tolerate dirt & still turn. 2 is Automotive fit so the screw can be assembled with fingers but doesn't tolerate dirt too well. 3 is Aviation fit so the fasteners must be assembled lightly with a wrench, not to be confused with Prevailing Torque Fasteners. You may also encounter a fastener container labeled: USS or SAE. United States Standard is a coarse thread. Society of Automotive Engineers is a fine thread.

A good tip of how to start a screw or nut without cross threading is to hold the screw as straight as possible. Then turn it in counterclockwise, loosen, rotation until you feel it click or drop into position, this is where the screw has dropped into the original threads, then rotate clockwise until snug.