

NORTHEAST N-TRAK

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February 2015
NEWSLETTER

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President's Message Frank Dignan

Hello everybody not much to report on since last month . Our season is half over with the biggest show coming up next weekend. So at this time I will give the old RAH RAH speech and what is expected of those attending. Dan Pawling has put together an interesting layout using up all the space allotted us. We are planning on using two lines of DCC red and blue lines with yellow for standard DC. When operating a train on the layout please, **PLEASE** stay with your train we don't need anyone screaming at the top of there lungs Breakaway on whatever line it only makes us look like fools. Also when you are out shopping or eating please remove your train from the layout if you don't want to find your stuff piled on the table when it is someone else turn to run. Again please store your trains, toolboxes and articles of clothing under your module we don't want the public look on us as a rummage sale.

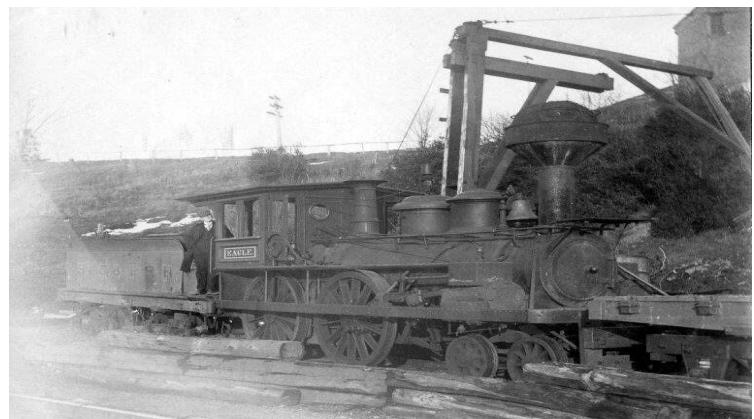
The show opens up for setup on Friday at 11 AM if you can try to get in with your module and get it set up ASAP ask for any help you may need and don't be afraid to lend a hand. This years layout will see the return of some modules from the past. Steve Cappers is bringing his inside corner with three units and the Mathews family will be displaying the Ernie Poole AUTO TRAIN mod good to have them back.

I am bringing a 6ft one track that I built for a future home layout and a 6ft end loop not finished . We are going to try to get more members interested in the one trak modules. When at the show don't forget to visit the other NTRAK layout in the Mallory building and we have several of our members doing T TRAK with our friend and member Fay Chin also in the Mallory.

Where do you buy your TRAINS and modeling supplies I always bought mine from the local hobby shop most of the time from Kens Trains and other in the area most are now gone in my local, I find it crazy to drive 75 or so miles each way for a bottle of paint, rail joiners or even couplers what to do? Support your local hobby shop. That's all I have right now see you in SPRINGFIELD your prez FRANK D

Lewey Island & Maine Central Railroad In Maine

The Lewey's Island Railroad, formed in 1856, ran from Princeton to Baring where it connected with the Calais and Baring line. It had a new locomotive, the Princeton but needed a inexpensive backup. The Eagle fit the bill perfectly. It had seen hard service during the Civil War during the battle for Richmond, being captured from the Federal Army by the Confederates and recaptured by Federals after battles which nearly destroyed the Eagle. The price was right for this old war horse so the Lewey's Island purchased it in 1865. It stayed in service for many years on several local lines.



The Maine Central Railroad Station in Calais in about 1900. Now the Heritage Center, the Calais depot once saw up to a dozen arrivals and departures daily. Local trains ran to Princeton through Woodland. The main line through Ellsworth and Bangor connected Calais with Boston. By the early 1900's almost all the products and goods in Calais stores not produced locally arrived by rail. The one exception was coal which continued to come by ship.



2014-2015 NENtrak SHOW PARTICIPATION SCHEDULE

Jan 23-25, 2015 Winterfest, Springfield, MA Amherst Railway Society - Big Railroad Hobby Show

Big "E" Exposition Center, West Springfield, MA

Set-up: Fri noon to 5:00pm & Sat 7:00am to 9:00am

Show Sat 9:00am to 5:00pm - Sun 10:00am to 5:00pm

Winterfest Chairman: Bob Fallier - 603-465-3785

Feb 14-15, 2015 National Heritage Museum, Lexington, MA

Set-up: Fri 1:00pm - 4:30pm & Sat 7:30am to 10:00am

Show Sat 10:00am to 4:30pm - Sun noon to 4:00pm

Coordinator: Bob Pawlak - 781-862-2485

March 21-22, 2015 Great Train Expo, Shriners Auditorium, Wilmington, MA

Set-up: Fri 1:00pm to 5:00 pm - Sat 7:30am

Show Sat 10:00am to 4:00pm - Sun 10:00am to 4:00pm

Coordinator: Frank Dignan - 508-866-9660

April 26, 2015 Hooksett Lions Club, Cawley Middle School, Hooksett, NH

Set-up: 8:00am - Show 10:00am to 4:00pm

Coordinator: Ron Wood - 603-206-5572

Show Dates Subject to Change...Check Newsletters for Updates. Please check schedule for errors and send up dates to Roland at: northeastntrak@msn.com Thanks for your help.

"The Maglev" by Paul Azevedo

Maglev (magnetic levitation) is a means of wheelless transportation that levitates the vehicle by magnetic force and provides thrust to propel the vehicle. The French TGV and the Japanese Shinkazin are two realizations of Maglev technology.

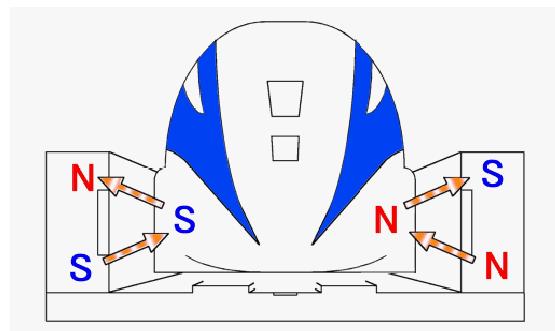
Carl Friedrich Gauss, (b 04/30/1777 — d 02/23/1855) was a German mathematician, and is regarded as one of the greatest mathematicians of all time for his contributions to [number theory](#), [geometry](#), [probability theory](#), planetary [astronomy](#), the theory of functions, and potential theory (including [electromagnetism](#)).

Gauss's law for [magnetism](#) states that the [magnetic flux](#) across any closed surface is zero; this law is consistent with the observation that isolated magnetic poles (monopoles) do not exist.

James Clerk Maxwell, (b 06/13/1831, d 11/5/1879), a Scottish physicist best known for his formulation of electromagnetic theory, is regarded by most modern physicists as *the* scientist of the 19th century who had the greatest influence on 20th-century [physics](#).

The concept of [electromagnetic radiation](#) originated with Maxwell, and his [field](#) equations, based on [Michael Faraday](#)'s observations of the electric and magnetic lines of force, paved the way for Einstein's special theory of relativity, which established the equivalence of mass and [energy](#). Maxwell's ideas also ushered in the other major innovation of 20th-century physics, the quantum theory.

American professor and inventor Robert Goddard (namesake of Goddard Space Center), and French born engineer Emile Bachlete first created the Maglev during the early 1900s. The Maglev train incorporates basic facts of magnetic forces: magnetic poles attract each other, to lift, propel, and guide a train over a track. The Maglev train propulsion and levitation involves superconducting materials, electromagnets, diamagnetic, and rare-earth magnets.



In 1933, Herman Kemper, (b 04/05/1892, d 07/13/1977), a German engineer, succeeded in creating a technical concept for a floating vehicle based on the principle of electromagnetic attraction. His patent described his invention as a "monorail vehicle with no wheels attached": a floating vehicle based on levitation using electromagnets in the track.

According to Railway Technology (Aug 29, 2013) the fastest ten trains in the World are:

1: Shanghai Maglev



Shanghai Maglev tops the list with its maximum operational speed of 430km/h and average speed of 251kmph. The Maglev started commercial operations in April 2004.

It runs on the 30.5km Shanghai Maglev Line, which is the first commercially operated high-speed magnetic levitation line, extending from Longyang Road Station of Metro Line 2 and ending at Shanghai Pudong International Airport.

2: Harmony CRH 380A



Harmony CRH 380A, with maximum operational speed of 380kmph, is currently the second fastest operating train in the world.

The electric multiple unit (EMU) set a record by speeding at 486.1kmph during its trial operation on the Shanghai-Hangzhou intercity high-speed railway in December 2010.

3: AGV Italo



AGV Italo is the first train in the AGV Series which entered into service in April 2012. It has a maximum operational speed of 360kmph.

The train broke a record speed of 574.8kmph in April 2007.

Considered to be the most modern train in Europe, AGV Italo was built by Alstom. The train currently runs on the Napoli - Roma - Firenze - Bologna - Milano corridor.

4: Siemens Velaro E / AVS 103



Velaro E, designated as AVE S 103 in Spain, is the fastest series-production high-speed train in the world. It achieved a whopping speed of about 400kmph during its test trips in Spain.

The train possesses an operational speed of 350kmph. The train was ordered by Spanish National Railways Renfe, and operates on the Barcelona-Madrid line.

5: Talgo 350 (T350)



Talgo 350, which initially entered service with the name RENFE AVE Class 10, achieved a maximum speed of 365kmph during its trial run. The train has a maximum operational speed of 350kmph.

T350 was developed by Patentes Talgo (Tren Articulado Ligero Goicoechea Oriol) and manufactured by Patentes Talgo in collaboration with Bombardier Transportation.

6: E5 Series Shinkansen Hayabusa



E5 Series Shinkansen Hayabusa trains, which entered service in March 2011, with an initial maximum speed of 300km now run on the Tohoku Shinkansen Line with a maximum operating speed of 320kmph.

Currently the fastest in Japan, the train achieved a speed of about 400kmph during trials.

7: Alston Euroduplex



Alstom-built Euroduplex is the third generation of TGV Duplex, which entered service in December 2011. The trains in the series are touted to be the only double-decker, interoperable high-speed trains capable of running on European networks at 320kmph.

The Euroduplex was initially introduced on the Rhine-Rhone LGV high-speed rail line. The train is capable of transporting 1,020 passengers (multiple units), compared to TGV Duplex which transports about 512 passengers. Euroduplex trains are designed to operate on French, German, Swiss and Luxembourgish rail networks.

8: TGV Duplex



TGV Duplex was manufactured from 1996-2004. They are operated by SNCF and were manufactured by Alstom and Bombardier. The trains can reach maximum speeds of 300kmph to 320kmph.

TGV Duplex is Alstom's first third-generation double-decker/duplex train. It provides a seating space for 512 passengers in its upper and lower decks. The train is constructed of aluminum to reduce weight. The trains in the TGV Duplex series mainly run on the TGV Méditerranée line between Paris and Marseille.

9: ETR 500 Frecciarossa Trains



Elettro Treno Rapido 500 (ETR 500) Frecciarossa trains entered into service in 2008. The trains are designed for a maximum speed of 360kmph and currently run at 300kmph on high speed lines.

The Frecciarossa (Red Arrow) is a renovated version of the ETR 500. The renovated trains operate between Rome and Milan.

10: THSR 700T



The THSR 700T operates on the high-speed line between Taipei and Kaohsiung in Taiwan. The train entered into service with Taiwan High Speed Rail in January 2007.

It operates at a speed of 300kmph reducing the journey time between the two cities from four hours to just 90 minutes.

You can read this full article online at the following web address:

<http://www.railway-technology.com/features/feature-top-ten-fastest-trains-in-the-world/>

Railway Stations from around the world.



Atocha Railroad Station, Madrid, Spain



Metro Station, Stockholm, Sweden



Gare de Liege Guillemins, Liege, Belgium

Railway Stations from around the world.



St Pancras Station, London, England



Majakovskauja Subway Station, Moscow, Russia



Dubai Metro Station, Dubai, United Arab Emirates



Grand Central Station, New York City



Dome of Lights, Kaohsiung, Taiwan



Flinders Street Station, Melbourne, Australia