

Chair's Message



As with previous newsletters, I am happy to report that the Rail Transportation Division is continuing to do very well. In the summer of 2012, I stepped into the role of Division Chair following Jason Reiling's superb lead during his 2011-2012 tenure.

Following the success of the 2012 Joint Rail Conference we are now wrapping up planning for the 2012 ASME Fall Technical Conference and Data Management Symposium which will be held in Omaha, NE on October 16-18, 2012. This conference will have a number of interesting features. First, it will host a first time in the industry "Data Management Symposium." The RTD recognized that with the growing amount of data produced by wayside systems, monitors, and various other sources, that the industry is entering into the "data age." We wanted to provide the industry a forum to openly discuss upcoming projects and challenges dealing with data management in the Mechanical, Engineering, and Operations departments. The one-day Data Management Symposium will occur on October 18th, which is following the regular Fall Technical Conference occurring on October 16th and 17th. The Data Management Symposium will also host an AAR sponsored town hall meeting to discuss industry data initiatives including Comprehensive Equipment Performance Monitoring (CEPM). CEPM is an initiative to serialize and track individual car components, particularly focusing on wheelsets, side frames, bolsters, and couplers. Additionally, the RTD is very excited about our scheduled banquet speaker, Lynden Tennison, Senior Vice President and Chief Information Officer of the Union Pacific Railroad. Lastly, Union Pacific has graciously offered to provide the conference tour which is tentatively planned to include a showcase of the latest technology of rail vehicles and Positive Train Control (PTC) equipment. The RTD is very appreciative of Union Pacific, in particular Todd Snyder, for graciously supported the organization and planning of the conference.

The RTD is also heavily working on the 2013 Joint Rail Conference with the other participating groups. The 2013 JRC is scheduled for April 15-18 in Knoxville, TN and is planning participation from ASCE, IEEE, APTA, AREMA, INFORMS-RAS, TRB, and NURAIL.

The RTD is continuing its role in aiding students involved in the rail industry with various scholarships. Following the success of the "Student Conference Scholarship," which pays the travel expenses of a student that writes and presents a paper at a RTD conference, the RTD is releasing a second scholarship type. This second scholarship will focus on undergraduate students and promote them to attend our conference and network with industry leaders. Applicants of the scholarship must write an essay, which can include a suggested solution to a real-world rail industry problem. This second scholarship program is set to start with

the 2012 RTD Fall Technical Conference and Data Management Symposium.

The RTD's goal is to provide an optimum networking interface between up-and-coming students interested in the rail industry and hiring rail industry companies. In the last year, the RTD has awarded approximately \$20,000 in student scholarships. I am extremely proud of the RTD taking this student support leadership role in the industry. With the RTD being a volunteer, non-profit organization, we are very happy to serve the industry in this manner.

Lastly, I am very happy to announce that we have brought Nick Darien onboard to the RTD to become our "Conference Planning Manager.". Nick of course is formerly the 2007-2008 RTD Chair. Nick will be helping the RTD with day-to-day conference planning and support to the RTD. I, for one, am extremely happy with Nick coming onboard and I'm looking forward to working with him again.

As you can see, the RTD has a lot of exciting activities ahead of us. We look forward to seeing you at our upcoming conferences.

Sincerely,



Matthew Dick, PE
ASME-RTD Chairman, 2012-2013

2012 ASME RTD FALL TECHNICAL CONFERENCE REGISTRATION OPEN
"Advanced Railroad Data and Technology"

Early discounted registration is now open. Complete details on registration, hotel and sponsorship and advertising opportunities are listed on the web page. <http://www.regonline.com/RTDF2012>

Abstracts for papers can be viewed here:

<http://www.asmeconferences.org/RTDF2012/ViewAcceptedAbstracts.cfm>

Lynden Tennison, Union Pacific Railroad



The RTD is very excited to announce that the 2012 RTD Fall Technical Conference and Data Management Symposium banquet speaker is Lynden Tennison from the Union Pacific Railroad. Mr. Tennison will speak about Union Pacific's data and information initiatives.

Lynden Tennison was named Senior Vice President and Chief Information Officer of Union Pacific Corporation in February, 2005. In his position, Tennison is responsible for organizing and managing the development, implementation and operation of Union Pacific Railroad's information and telecommunications technologies.

Before his promotion, Tennison was Vice President of Information Technologies and Chief Technology Officer for Union Pacific Railroad. Tennison was named to that position in 2001 and had responsibility for the application systems and architectures for the entire company. From 1998 through 2001, Tennison was president and chief executive officer of Nexterna, a technology subsidiary of Union Pacific. Nexterna develops applications and hardware solutions for the mobile asset marketplace.

2012 RTD FALL TECHNICAL CONFERENCE SCHEDULE

OCTOBER 16-18, 2012 -- OMAHA HILTON HOTEL

"Advanced Railroad Data and Technology"

TUESDAY, OCTOBER 16, 2012:

CONFERENCE TECHNICAL TOUR

- 7:30 am – Pick-up at Hilton Hotel to UP yard
- 7:45 am – 8:45 am Tour UP cars & locomotives
- 8:45 am – 9:00 am To UP headquarters downtown
- 9:00 am – 10:30 am Tour UP PTC lab
- 10:30 am – UP headquarters to ESI
- 11:00 am – 12:00 pm Lunch at ESI laboratory
- 12:00 pm – Return to Hilton Hotel

RTD TECHNICAL SESSIONS

- 1:15 pm - 2:15 pm Technical Session 1 - Wheel Design and Analysis
- 2:30 pm - 4:00 pm Technical Session 2 - Motive Power
- 4:15 pm - 5:45 pm Technical Session 3 - Carbody Structural Design

RTD RECEPTION & BANQUET

- 6:00 pm - 6:45 pm Conference Reception
- 6:45 pm - 8:00 pm Conference Banquet & Program

WEDNESDAY, OCTOBER 17, 2012:

CONFERENCE CONTINENTAL BREAKFAST & AUTHORS MEET WITH SESSION CHAIRS

- 7:30 am - 8:15 am Continental Breakfast & Wednesday Authors' Orientation

RTD TECHNICAL SESSIONS

- 8:30 am - 10:15 am Technical Session 4 - Rail System Safety
- 10:30 am - 12:15 pm Technical Session 5 - Vehicle/Track Interaction
- 12:30 pm - 1:15 pm Conference Luncheon
- 1:30 pm - 3:15 pm Technical Session 6 - Rail Measurement and Monitoring
- 3:30 pm - 5:00 pm Technical Session 7 - Concrete Crossties
- 5:45 pm - 10:00 pm Conference Reception at Durham Museum

THURSDAY, OCTOBER 18, 2012 - DATA MANAGEMENT SYMPOSIUM:

CONFERENCE CONTINENTAL BREAKFAST & AUTHORS' MEET WITH SESSION CHAIRS

- 7:30 am - 8:15 am Continental Breakfast & Thursday Authors' Orientation

RTD DATA MANAGEMENT SESSIONS

- 8:30 am - 10:15 am Session 8 - Opening Plenary
- 10:30 am - 12:15 pm Session 9 - Engineering Data Management
- 12:30 pm - 1:15 pm Conference Box Lunch – NO PROGRAM
- 1:30 pm - 3:15 pm Session 10 - Data Technologies

AAR SPONSORED CEPM TOWNHALL MEETING

- 3:30 pm - 5:30 pm

END OF CONFERENCE

Registration Desk Hours:

- Monday - 12:30 pm - 3:30 pm
- Tuesday - 6:30 am - 7:30 am, 12:00 pm – 4:00 pm
- Wednesday - 7:30 am - 4:00 pm
- Thursday - 7:30 am - 12:00 pm
- 1:15 pm - 3:30 pm **Sign-in for CEPM attendees**



2013

CALL FOR PAPERS & PRESENTATIONS

Joint Rail Conference - 2013

NEXT GENERATION RAILROADS,
NEXT GENERATION RAILROADERS:
INNOVATIONS AND PEOPLE FOR THE FUTURE

Knoxville Convention Center, Knoxville, Tennessee, USA

April 15 – 17, 2013

JRC 2013 is the major, multidisciplinary North American railroad conference encompassing all aspects of rail transportation and engineering research.

<p>Railroad Infrastructure Engineering</p> <p>Design, engineering, and construction of track and bridge structures. Geotechnical engineering of track substructure and right-of-way. Best practices and advances in technology for the inspection and maintenance of the railroad infrastructure.</p>	<p>Electrification</p> <p>Catenary design, third rail design, materials, safety, efficiency, cost effective electrification approaches, design for high speeds, Electro Magnetic Compatibility (EMC), corrosion control, load flow simulation, energy savings, energy storage devices, regenerative braking, smart electrical supply</p>
<p>Rail Equipment Engineering</p> <p>Motive power technology, vehicle/track interaction, wheels, couplers, components, rolling stock design, manufacturing, materials, and maintenance</p>	<p>Planning and Development</p> <p>Project management, planning & financing, new start and expansion development, service planning, environmental impact, and workforce development.</p>
<p>Urban Passenger Rail Transport</p> <p>Investigations, insights, innovations, and implementations in all aspects of Urban Passenger Rail Transport</p>	<p>Energy Efficiency and Sustainability</p> <p>Energy conservation and efficiency, energy storage modeling, hybrid vehicles, emissions reduction and control</p>
<p>Service Quality & Operations Research</p> <p>Service availability and reliability, capacity models, impacts of aging equipment on service quality, transport mode integration especially with high-speed rail, passenger information systems and passenger reservation systems, freight railroad network optimization, asset planning, and train scheduling.</p>	<p>Safety and Security</p> <p>System Safety Approaches, Safety Data Management, Risk Analysis Approaches and Application, Accident Avoidance interplay with Accident Survivability, Human Factors Informed Safety Improvements, Hazmat Risk Identification, Security Assurance and Emergency Preparedness and Response</p>
<p>Signal & Train Control Engineering</p> <p>Systems integration, track and wayside components, equipment components, positive train control, interoperability, and microprocessor control</p>	

Authors may submit abstracts via email to lissa@utk.edu through August 31, 2012. Please provide abstracts in English and limit size to 400 words. Include authors and contact information in the abstract body. Attachments may be in plain text, PDF, or WORD compatible format. Paper submittal is encouraged but not required. Interested authors will be notified of abstract acceptance. Conference papers will be peer-reviewed and published in proceedings.

Joint Rail Conference co-sponsoring organizations:



Dr Gerald J. Moyar 1935-2012

The RTD is sad to report the passing of Jerry Moyar of Naperville, IL, July 5, 2012 of heart failure. A long-time member of RTD and former Director and past Chair of the Fox Valley Section (Illinois), Jerry had recently shepherded the successful nomination for the City of Batavia's farm windmills as an ASME historic engineering landmark. He will be missed as a mentor and servant to the profession.

His career as a mechanical engineer spanned many years of research and consultancy to the railroad industry.

Dr. Moyar was born May 22, 1935 in Jeannette, PA. Much of his childhood was spent in Portsmouth, VA where his father worked in the Norfolk Navy Yards during World War II. He graduated from Petersburg (VA) High School in 1953 and was a 1st team All-State Football selection his senior year.

Following graduation with honors from Princeton University, Class of 1957, Dr. Moyar earned advanced degrees from the Dept. of Theoretical and Applied Mechanics at the University of Illinois, Urbana-Champaign. Subsequent employment included Knolls Atomic Power Lab in Schenectady NY, where he directed reactor-core research for naval and civilian application; and Brenco Inc., Petersburg VA, as Vice President of Research. In 1977 in Chicago he led a cooperative international research program on railroad track/train dynamics managed by the Association of American Railroads.

Dr. Moyar enjoyed many years of service to the university alumni organizations, religious institutions and professional societies to which he belonged. During the 1990's he served on the Board of the Chicago Engineers' Foundation, Union League Club of Chicago. At the time of his death he was editor of the religion page for the Princeton Class of '57 web site.

He is survived by his wife of 52 years, Ruth, and sons James (Lynelle) of Mechanicsville VA, Jess (Leslie) of Orland Park IL and Timothy of Naperville, and eight grandchildren. Other survivors include a sister, Susan Jane Williams (the late David Williams) of Findlay, OH and a brother, George Russell Moyar (Bonnie) of Montross VA.



2013 Joint Rail Conference

hosted by Center for Transportation Research

The University of Tennessee Center for Transportation Research (CTR) is pleased to host JRC 2013 in Knoxville, Tennessee, April 15-17. The conference theme is **Next Generation Railroads, Next Generation Railroaders: Innovations and People for the Future**. Conference topics include Railroad Infrastructure Engineering, Service Quality & Operations Research, Rail Equipment Engineering, Planning & Development, Signal & Train Control, Engineering, and Safety & Security. See <http://ctr.utk.edu/JRC2013/> for further information and call for papers.

Uniquely Beautiful Surroundings

Knoxville is ideally situated near the nation's most-visited National Park, the Great Smoky Mountains. The park is a renowned location for camping, hiking, picnicking, and viewing wildlife, among many other diversions. The City of Knoxville has been the regional hub since its founding in 1791 and rail has played an important part in the city's development since before the Civil War. Knoxville is home to Southern Appalachia Railway Museum, which sponsors the Secret City Scenic excursion train in Oak Ridge, and Amtrak's Three Rivers Rambler, which carries visitors from the downtown riverfront, past UT's Neyland Stadium, and on to the Three Rivers Trestle where the French Broad and Holston rivers come together to form the Tennessee River. The conference hotel, Hilton Knoxville, is within a short walk of the UT campus and the Knoxville Museum of Art. Unique eateries located nearby offer delicious foods for every taste. Live music happens almost nightly on Market Square where residents of the thriving city center stroll and enjoy pubs, theaters, and art.

Celebrating 40 Years of Transportation Expertise

CTR was created in 1970 to foster and facilitate interdisciplinary research, public service, and outreach in the field of transportation at the University of Tennessee, Knoxville. Today CTR has over \$10 million in research funding under contract. CTR programs concentrate on comprehensive transportation safety. Among our research partners are USDOT, FHWA, US Army Corps of Engineers, TDOT, and Governor's Highway Safety Office. CTR develops and delivers programs for education, workforce development, continuing training, and community service. Its long-running summer program, Transportation Academy, introduces middle school girls to the multifaceted world of transportation and the many career possibilities open to them. CTR, in conjunction with the Tennessee Department of Transportation, runs the federally funded Safe Routes to School program to promote the benefits of children walking and biking to school. The Tennessee Vans program offers affordable transit options for underserved populations while CTR's Rail & Track Program, Tennessee Transportation Assistance Program, and Traffic Signal Academy provide critical continuing education to working professionals and field staff.

UT College of Engineering

Established in 1838, the College of Engineering has a long tradition of commitment to excellence in scientific research and training of engineering professionals. The Department of Civil & Environmental Engineering is concerned with designing the infrastructure of a society. This encompasses construction, transportation, energy needs, and the design and development of urban areas. Environmental engineering solves problems with pollution and waste disposal and managing and minimizing damage to communities from water and other natural sources.

The University of Tennessee

Ranked by U.S. News & World Report as one of the Top 50 public research institutions in the nation, the University of Tennessee offers students a high-quality education. UT students have access to a top-notch library, professors who are leaders in their fields, and a wide range of study abroad programs and internships. Be sure to visit the newly dedicated Min Kao Engineering building that houses world class laboratories and teaching facilities.

Contact Center for Transportation Research: 865.974.5255/ctr.utk.edu

FUTURE MEETINGS

2012 - FTC & Data Management Symposium: October 16-18 Omaha, NE

2013 - JRC: April 15-18 - Knoxville, TN - University of Tennessee, Knoxville Convention Center

2013 - FTC: Mid October - Altoona, PA, - Penn State Altoona

2014 - JRC: March - Pueblo, CO

2014 - FTC: Location Open

Note that all dates and locations are subject to change as planning progresses.

**RTD thanks the following list of companies for their generous support.
These supporters make success of our technical conferences possible.
2012 JRC**

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