



## CHAIR'S MESSAGE Dave Cackovic



The first half of my year as Chair has passed very quickly, and I suspect that the many ASME Rail Transportation Division activities have played a large part in that.

### Conferences

The most significant contributor to the busy year has been conferences. RTD's goal for conferences is to provide engineers in our industry the opportunity to publish, share their work, and network with other engineers. The IMECE held last November in Anaheim, California was a great success. Many interesting papers were presented at the well-attended RTD sessions. And as I mentioned in my last Chair's Message, the ASME Rail Transportation Division and the Land Transportation Division of the IEEE

Vehicular Technology Society are pleased to present the 2005 ASME/IEEE Joint Rail Conference (JRC). For over 40 years, the annual JRC has provided a unique and comprehensive forum for engineering professionals involved in the business of passenger and freight rail transportation to share experiences and to learn about new and innovative activities in railway mechanical and electrical engineering.

The 2005 JRC will be held March 16-18, immediately following the 10th Annual Association of American Railroads (AAR) Research Review in Pueblo, Colorado. Things are coming together very well for the 2005 JRC, as we have 36 papers committed and the tour of the Transportation Technology Center promises to be of great interest to the conference attendees.

### Scholarship Restarted

RTD has been able to restart its scholarship program for Mechanical Engineering Students -- I am honored to announce that

next fall, ASME/RTD will sponsor a scholarship in memory of Mr. Terrey Hawthorne. This adds to Terrey's many honors received throughout his career. Details can be found elsewhere in this newsletter.

### Division Management

The RTD leadership began, in 2003, a considerable effort to improve and streamline its administrative division management while maintaining and, in several cases, improving the quality of its services to engineers in the rail transportation industry. I would like to personally thank the RTD Executive Committee for their continued efforts in this area. If you would like to comment on how RTD can improve conferences and other services, you can contact me at [david\\_cackovic@aar.com](mailto:david_cackovic@aar.com).

In closing, I once again will say I am privileged to be involved with ASME RTD. I encourage those interested in RTD operations to contact active members to see what this is all about. ▲

## HISTORY IN THE RTD Charles M. Smith

Participation in the RTD is often the subject of discussion in our General Committee meetings, in particular the relative representation of railroaders, supply personnel, and academia within our Division. This prompted me to review the background of our chairpersons since the inception of our Division in 1920. In the years 1920 - 1929, the chair was equally shared by railroad and supply representatives, with each group holding the office for five years. During this period, three persons held the office for multiple terms. Since 1928, however, no person has held the office for more than one term.

During the first three years, Edwin B. Katte, Chief Engineer, Electric Traction of the New York Central held the office and was instrumental in the initial development

of the Division. Mr. Katte's experience with electrification dated back to the very start of the Grand Central project in 1905. James Partington, Manager of Engineering of the American Locomotive Company, who served for two years, followed him as Chair. Mr. Partington's entire career had been as a locomotive builder, having started as an apprentice at the Pittsburgh Locomotive Works in 1887, fresh out of high school.

He was followed by the one-year term of Charles E. Chambers, Superintendent of Motive Power of the Jersey Central. Next came the two-year term of Henry B. Oatley, Vice President of Engineering of the Superheater Company. After graduation from the University of Vermont in 1900 Mr. Oatley had joined the American Locomotive Company, where he served until moving to

the Superheater Company in 1910. His World War I service as an engineering officer on the USS Ohio, USS Salem and USS Indiana is duly noted. Mr. Oatley was followed by William Elmer, Special Engineer of the Pennsylvania, and R.S. McConnell of the Baldwin Locomotive Works, who closed out the decade of the 1920's.

During the 1930's, the Chair was held of six railroaders and four supply representatives. Notable among these were Lewis K. Sillcox, longtime official of the New York Air Brake Company, and who before that served the New York Central, Canadian Northern, Illinois Central, and The Milwaukee Road. Dr. Sillcox was a good friend to many of us, who never forgot to send birthday greetings. Another notable was William H. Winterrowd,

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# 2004

## IMECE - RAIL TRANSPORTATION DIVISION SESSIONS

Rail Transportation Division technical sessions were held November 16-17, 2004 in Anaheim as part of the ASME IMECE. A total of 23 technical papers and one panel session with three industry panelists were presented. Some of the subjects covered were: Wheel Failure, Wheel Flat Impacts, Rail Vehicle Dynamics, Modeling Friction Wedges, Crash Energy Management, Residual Stresses in Rail, Profile Measurement of Rolling Wheels, and Impact of Industry Specifications.

The Expo at IMECE afforded an opportunity to view demonstrations by companies offering testing and analysis tools, offerings from technical publishers and more.

The annual Rail Transportation Division Luncheon provided time for discussions around the table and a very interesting and informative presentation on the Alameda Corridor Project, a significant infrastructure enhancement project to establish rail lines to serve the LA area ports. Mr. Arthur Goodwin, Director of Planning for the Alameda Corridor Transportation Authority ([www.acta.org](http://www.acta.org)), was the featured luncheon speaker and offered an overview of the obstacles involved and benefits to the rail industry as well as the entire economy.

Special thanks go out to the following sponsors who help to make the luncheon successful:

- A. Stucki Company
- Construction Technology Laboratories
- Haddady Corporation
- Miner Enterprises
- Rail Sciences, Inc.
- Railway Research Inc.
- TTCl
- TTX

If you missed this one, plan to attend the 2005 ASME/IEEE Joint Rail Conference in March to be held in Pueblo, which will include a tour of TTCl. ▲



*Mr. Arthur Goodwin, Director of Planning for the Alameda Corridor Transportation Authority, was the featured luncheon speaker*



*At RTD Luncheon (left to right): Dave Cackovic, Arthur Goodwin and A.D. McKisic*

### **FUTURE MEETINGS**

2005 ASME/IEEE Joint Rail Conference, Pueblo, CO

**March 16-18**

2006 IMECE, Orlando, FL

**November 12-18**

2006 ASME/IEEE Joint Rail Conference, Atlanta, GA

**March/April**

### **ADVERTISING OPPORTUNITY — TABLE-TOP EXHIBITS AT 2005 JRC**

What better way to promote your company name to the Railroad Community and the ASME - Rail Transportation Division professionals than to sponsor a table-top exhibit at the upcoming 2005 Technical Railroad Conference.

This conference will be held in conjunction with the AAR-TTCi Annual Research review in Pueblo Colorado, the week of March 15—18, 2005. For additional information, contact Gary Wagner via e-mail at [wagnerg@hadadycorp.com](mailto:wagnerg@hadadycorp.com).



# 2005 Joint Rail Conference

Research and Testing for Industry Advancement

March 16 - 18, 2005

Pueblo, Colorado

[www.asmeconferences.org/jrc05/](http://www.asmeconferences.org/jrc05/)

The ASME Rail Transportation Division and the Land Transportation Division of the IEEE Vehicular Technology Society, are pleased to present the 2005 ASME/IEEE Joint Rail Conference (JRC). For over 40 years, the annual JRC has been providing a unique and comprehensive forum for engineers, equipment manufacturers, rail maintenance and operations personnel at transit companies, government officials, and other professionals involved in the business of passenger and freight rail transportation to share operating experiences and learn about new and innovative activities in railway mechanical and electrical engineering.

The theme of the 2005 JRC is "Research and Testing for Industry Advancement." The two-day technical conference will focus on advances in design, analysis and testing of equipment serving rail industries.

- Session topics include:
- Vehicle & Track Performance
  - Railroad Signaling
  - AC/DC Traction Control
  - Monitoring & Tracking Train Performance
  - Locomotive & Freight Car Performance PLUS a technical tour of the Transportation Technology Center, a world-class intermodal research and test center.

The 2005 JRC will be held immediately following the 10th Annual Association of American Railroads (AAR) Research Review in Pueblo, Colorado.

Conference attendees who need professional development hours (PDH's) to maintain a P.E. license or other professional certification should check the rules of the appropriate licensing body to see if participation in this conference will qualify for credit. Participation record forms will be provided upon request.

**Pass it on—please let your colleagues know about this conference!**

## SCHEDULE

**Tuesday, March 15, 2005**

AAR Research Review

**Wednesday, March 16, 2005**

Transportation Technology Center (TTC) Tour and lunch for attendees of both conferences.

**Thursday, March 17, 2005**

JRC Presentations and Luncheon—all day in Pueblo at Marriott Conference Center

**Friday, March 18, 2005**

JRC Presentation Sessions—morning in Pueblo at Marriott Conference Center

For most up-to-date program information and to read all technical paper abstracts, visit the conference website:

[www.asmeconferences.org/jrc05/](http://www.asmeconferences.org/jrc05/)



## History in the RTD

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Vice President of the Lima Locomotive Works, and later with Baldwin. Mr. Winterrowd also had an extensive railroad career with the Lake Erie & Western, Pennsylvania R.R., Lake Shore & Michigan Southern, and Canadian Pacific. He was Chief Mechanical Engineer of the CPR when he moved on to Lima.

During the 1940's, the Chair was held by four railroaders, five supply representatives and because of a dual career, a member of academia. Notables included: Lawford H. Fry, Director of Research of the Locomotive Research Institute and a veteran of Baldwin, Standard Steel, and Edgewater Steel and author of many technical works. Another was A. I. Lipetz, long-time Consulting Engineer of the American Locomotive Company, Chair in 1941-1942. Dr. Lipetz also qualifies as an academic, since he was a non-resident Professor of Locomotive Engineering at Purdue University and during his early career in Europe was an assistant professor of thermodynamics and railway engineering at the Kiev Polytechnic Institute. Dr. Lipetz came to the United States in 1915 as a representative of the Russian Ministry of Railways and was the designer of the Russian Decapod locomotive, hundreds of which were built by American builders. Like many of these locomotives, he remained in the United States after the fall of the Czarist government. Other well-known railroaders who served as Chair in the 1940's were D.S. Ellis of the Chesapeake & Ohio, Karl F. Nystrom of the Milwaukee, and Paul W. Kiefer of the New York Central.

During the 1950's, the score was 6 to 4 for the railroaders; during the 1980's, 3 railroaders, 6 supply people, and our one and only rail transit man, Joseph P. VanOverveen, of BART. The 1990's saw an equal division, 5 to 5, between railroaders and supply people.

While railroad participation may be holding up at the head table, we do need more railroad participation on the floor. We ask that all of our members enlist a new participating railroad member. These people have a wealth of experience to share with us, and we need them.

Our late Division Manager, Grant Arrasmith, started this compilation, and his help is gratefully acknowledged. ▲

## SHARE YOUR EXPERTISE

### —WRITE A TECHNICAL PAPER FOR THE RAIL TRANSPORTATION DIVISION

Our Rail Transportation Division (RTD) participates in two technical meetings every year. The Joint Rail Conference (JRC) is held in co-operation with the Land Transportation Division of IEEE in April each year. The RTD also participates in ASME's International Mechanical Engineering Congress & Exposition (IMECE) in November each year. Approximately 36 to 40 papers are presented at these meetings.

Any rail transportation topic is of interest. Practical papers are of special interest. This gives the RTD member the opportunity to learn the current best practice pertaining to his area of mechanical engineering interest. RTD serves all forms of Rail—

Freight, Inter-City passenger, Commuter, and Rapid Transit including Light Rail.

ASME's Conference Toolbox, an online paper submission system, offers a very easy way to get published. Upon receipt of your offer of a paper the Papers Program Chair will review your offer and accept the offer or suggest changes. Upon acceptance the web tool provides a schedule to submit the draft paper and the final paper. A confidential peer review of the draft paper is arranged and comments are provided for the author's consideration. As a true Mechanical Engineering professional we can all benefit from this experience and serve our industry in a positive way and gain recognition also. ▲

## CALL FOR PAPERS

### 2005 ASME International Mechanical Engineering Congress and Exposition

November 6–11, 2005 • Orlando, FL USA

<http://www.asmeconferences.org/Congress05/>

### Rail Transportation Division

#### Objectives

Authors and presenters are invited to participate in this event to expand International cooperation, understanding and promotion of efforts and disciplines in the area of locomotive, freight, and passenger rail technology. Dissemination of knowledge by presenting research results, new developments, and novel product concepts in rail transportation will serve as the foundation upon which the conference program of this area will be developed.

A variety of sessions are available for presentations as it allows flexibility to the authors. Although the majority of sessions are paper sessions, other types of sessions include panel discussions, open forums, and posters. All sessions are quality driven.

#### List of Topical Areas

Abstracts are invited for presentation and publication on the following key topics for all sessions: Suspension Performance • Vehicle Testing for Safety • Designing the Next Generation Equipment • Extending the Life of Rail Assets • Monitoring Real-time Performance • System Performance

#### Abstracts

Authors should submit a 400-word text-only abstract to:  
<http://www.asmeconferences.org/Congress05/>

**ABSTRACT DUE DATE: March 7, 2005**

# 2004-2005 RAIL TRANSPORTATION DIVISION

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John Oliver (2001-2002)  
Eric Wolf (2000-2001)  
George Barker (1999-2000)  
Dan Stone (1998-1999)



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[www.asme.org/divisions/rtd](http://www.asme.org/divisions/rtd)

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## TERREY HAWTHORNE MEMORIAL SCHOLARSHIP

### 2005 – 2006 Academic Year

On March 16, 2004, the railroad industry lost a much-respected engineer and valued friend. We are saddened by his loss, but today we honor his contributions to ASME and the railroad industry through a career spanning 48 years with the Terrey Hawthorne Memorial Scholarship.

In honor of Terrey Hawthorne, the ASME Rail Transportation Division is offering one \$2,000 scholarship award for the 2005-2006 academic year. Current employees of railroads, railroad supply firms, transit authorities, associated companies and their family members are eligible.

**Applications are due by May 1, 2005.**

### Completed forms/applications to be sent to:

**Mr. Sam Williams**

Manager of Division Affairs  
ASME Rail Transportation Division  
5759 Scotia Court  
Dublin, OH 43016-3256

### For additional information, please contact:

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Rail Transportation Division  
American Society of Mechanical Engineers

### Terrey Hawthorne Memorial Scholarship

2005–2006 Undergraduate \$2,000 Scholarship  
for Mechanical Engineering Students

*(Please type or print all information)*

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Social Security No.: \_\_\_\_\_

Degree Sought: BSME \_\_\_\_\_

Expected Date: \_\_\_\_\_

Permanent Home Address: \_\_\_\_\_

\_\_\_\_\_ Phone: \_\_\_\_\_

College Address: \_\_\_\_\_

\_\_\_\_\_ Phone: \_\_\_\_\_

Send correspondence to:  Home  College address

Parent's or applicant's relationship to the Railroad Industry (Relation to Railroad Industry is Required)

Name of Employee: \_\_\_\_\_ Title: \_\_\_\_\_

Name of Employer: \_\_\_\_\_ Years \_\_\_\_\_

Employer's Address: \_\_\_\_\_

**The following must accompany this application:**

1. A statement of intent to pursue mechanical engineering in the railroad industry as a career.
2. Statement of perception of the importance of rail transportation in the overall field of transporting freight and passengers.
3. Information on experiences in the railroad realm, i.e., work, model railroading, photography, etc.