

## Chair's Message



I am honored to be writing my first message as Chair of the Rail Transportation Division for ASME. I started volunteering for ASME RTD in 2010, on the Rail Equipment Engineering track for a very successful conference at University of Illinois at Urbana-Champaign. The last five years I have spent countless hours reviewing papers, hounding authors and reviewers, and preparing conference programs. Through my time volunteering for the Rail Transportation Division, I have met many dedicated, intelligent, passionate engineers in the field of rail transportation that I am proud to call my colleagues and friends.

We have some exciting events on the horizon. JRC 2015 in San Jose is shaping up to be a fantastic conference, hopefully the best JRC yet. This year's conference is being held at San Jose State University in the heart of the nation's tenth largest city and the "capital" of Silicon Valley. Our host is the Mineta Transportation Institute. MTI is named for former Secretary of Transportation Norman Y. Mineta and we have the honor of having him as a keynote speaker. Researchers will give 120 presentations on their current, relevant work in the industry. The full details of this year's conference are available online at <http://www.asmeconferences.org/JRC2015/>

At this year's conference, RTD is continuing the tradition of awarding student scholarships to graduate students who write and presents papers and to undergraduate students who demonstrate their interest in rail by writing an essay. We are pleased to be awarding 20 graduate student scholarships and 3 undergraduate scholarships this year. These scholarships will help the student travel and attend the conference.

RTD currently has openings on the General Committee and will soon have openings available on the Executive Committee. If you are interested in helping with scholarships, technical content, publicity, or any other part of our conferences, please reach out to a current General Committee member. Next year's conference is planned for Columbia, South Carolina, to be hosted by the Advanced Railway Technology Group in the Civil and Environmental Engineering Department of the University of South Carolina. I hope to see everyone in sunny California!

Michelle Muhlanger, Chair

## Conference Chair's Message



**Ed Mortlock**  
**Conference Chair**  
**IEEE**  
**PARSONS**

JRC is the principal rail and transit research conference in North America. This year's conference theme is "A Century of Innovation: Heavy Haul to High-Speed Rail". Papers in this year's conference cover topics related to all the rail modes that have developed in the past century, heavy haul freight, high speed passenger service, commuter rail, subways, light rail, and (true) high speed rail. A lot has been learned in those hundred years plus and it is essential that in developing our plans for expansion and enhancement of rail systems in the North American continent, we seriously examine why things are

the way they are and the path that innovation has taken to get where we are today.

Eight major technical organizations sponsor the JRC—APTA, AREMA, ASME, ASCE, IEEE, INFORMS, TRB, and the National University Rail Center (NURail). The combination of these organizations makes the JRC a truly multidisciplinary conference. JRC brings railway researchers and practitioners together from around the world. The call for abstracts is distributed worldwide, and this year we have accepted a large and excellent array of papers representing the best the global railway research, operations, and engineering communities can offer. Conference tracks accommodate any subject related to railway planning, design, construction, operation, maintenance, and economics. We believe you will find that our program offers a wealth of information and experience.

Rail transportation worldwide continues to face growth opportunities that are almost unprecedented. The inherent advantages of the rail mode are being recognized by rail customers and public policy makers. 2015 is a milestone year in North America with the deadline for implementation of Positive Train Control at the end of the year. California's High Speed Passenger Rail Program has already seen a significant milestone this year with groundbreaking on the first section in January. Jeff Morales, the California High Speed Rail Authority CEO, is an invited speaker.

In the San Jose area, rail passenger numbers continue to grow. Caltrain has begun the implementation phase of its electrification program which will allow the replacement of its push-pull diesel fleet with modern electric multiple units with much improved acceleration and braking performance. The Valley Transportation Authority (VTA) is expanding its network to handle the rise in weekday passenger levels and also weekend surges with the opening last year of the 49ers stadium in Santa Clara. VTA is preparing for the Superbowl which will be held at Levi's Stadium in 2016. VTA is also funding the Warm Springs BART extensions currently under construction. Nuria Fernandez, General Manager of the Valley Transportation Authority (VTA) is an invited speaker.

Two years ago at the JRC in Knoxville TN, the Chair noted the challenge to address the need to populate a new generation of professional railroaders to design, operate, and maintain the expanding systems. The railroad profession continues to face the imminent retirement of a large portion of its technical and managerial workforce, and academic institutions are still in the early stages of training the next generation of railroaders. When I started my rail career in the signal department of London Underground, there were budgets to hire graduates and to train them for two years in all aspects of the department. In the early 80s those budgets dwindled leaving the onus to hire and train in the supplier and consulting arenas. Academic organizations have since joined the movement but we have still a long way to go to meet the demand for capable resources to build for the future and to continue innovating. Getting young railroaders attracted to the industry, and keeping those people engaged is an essential part of that building process.

Those experienced railroaders and transit professionals attending JRC are strongly encouraged to take the opportunity to engage with the young attendees, especially students, and convey your enthusiasm for your chosen profession. Pass on even a small part of that enthusiasm and see it stick.

The 3 days of the conference include both plenary and presentation sessions. In addition, the conference offers technical tours of Caltrain's maintenance and operating facilities and of the BART Warm Springs extension hosted by VTA. The planned next stop for BART is right here in San Jose.

The keynote speaker at the banquet is Rod Diridon for whom San Jose station is named and is the Emeritus Executive Director of MTI. Rod is known as the "father" of modern transit service in Silicon Valley and was honored last year by the

American Public Transportation Association (APTA) with its Hall of Fame Award.

The conference hotel is directly downtown, a short walk from the SJSU campus where the sessions will be held, and many restaurants and other attractions in the surrounding streets will keep you entertained in the evenings. San Jose was founded in 1777 and currently has a population just under one million. When California gained statehood in 1850 it was the first capital. For those of you who want to venture further afield, San Francisco is 48 miles to the north and can be reached conveniently by train courtesy of Caltrain from the downtown Diridon station. There is also passenger train service to Stockton and Sacramento and daily service by Amtrak to Seattle and Los Angeles.

I look forward to seeing you in San Jose towards the end of March. You will find our city very hospitable, and I look forward to an informative and thought provoking conference.

Ed Mortlock – Conference Chair

IEEE

Parsons

## **FUTURE MEETINGS**

**2015 - JRC: San Jose, CA, March 23-26, 2015**-<http://www.asmeconferences.org/JRC2015/>

**2016 - JRC: University of South Carolina, Columbia, SC, April 12-15, 2016**

### **Bryan Schlake has joined the executive committee as the Assistant Technical Program Chair**

Bryan, Instructor in Rail Transportation Engineering, earned both a B.S. in Mechanical Engineering and an M.S. in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign. His graduate research with the University of Illinois Rail Transportation and Engineering Center (RailTEC) involved analysis of freight car condition monitoring technologies. Post graduation he served in both management and engineering roles at Norfolk Southern Railway. In addition to investing in the next generation of railroad engineers, Bryan is involved with research related to rolling stock safety, training within industry, and applying lean production principles to railroad mechanical operations.



# MARCH 23-26, 2015 • SAN JOSE, CA

# JOINT RAIL CONFERENCE

HOSTED BY THE MINETA TRANSPORTATION INSTITUTE



**Conference will be held at San Jose State University**

**Sleeping Rooms:**

**The Fairmont San Jose, 170 South Market Street, San Jose, California 95113**

**Call-in: 1-800- 441-1414**

Please identify yourself as an 2015 Joint Rail Conference Attendee.

Registration Fees	Advance Rates on or Before March 2, 2015	On-Site Rates on or After March 3, 2015
ASME Members/Cooperating	US\$ 500	US\$ 600
Session Chair/Author	US\$ 500	US\$ 600
Non-ASME Members	US\$ 650	US\$ 750
ASME Student Member/Cooperating	US\$ 125	US\$ 225
Student Non-Member	US\$ 150	US\$ 250
Life Member	US\$ 125	US\$ 150
Life Member Author	US\$ 500	US\$ 600
One Day Member	US\$ 350	US\$ 450
One Day Non-Member	US\$ 445	US\$ 545
One Day Life Member	US\$ 100	US\$ 125
One Day Student	US\$ 90	US\$ 140
One Day Student Non-Member	US\$ 115	US\$ 165
Tour	US\$ 20	US\$ 20
Exhibitor Only	US\$ 100	US\$ 100
Extra Banquet Tickets	US\$ 50	US\$ 50
Guest	US\$ 30	US\$ 30

For more information, go to [www.asmeconferences.org/JRC2015](http://www.asmeconferences.org/JRC2015)

# 2015 JOINT RAIL CONFERENCE PROGRAM

## MONDAY , MARCH 23

REGISTRATION OPEN	12:30 PM - 3:00 PM	(SJSU WALKWAY)
ORGANIZATIONAL MEETINGS	1:00 PM - 5:30 PM	(SJSU BALLROOM A)
ORGANIZING COMMITTEE DINNER	7:00 PM - 10:30 PM	(LOFT BAR & BISTRO)

## TUESDAY MARCH 24

CONTINENTAL BREAKFAST	6:30 AM - 7:00 AM	(SJSU BALLROOM B)
CALTRAIN TOUR #1	7:30 AM - 12:30 PM	(MEET AT FAIRMONT HOTEL)
CALTRAIN TOUR #2	9:30 AM - 2:30 PM	(MEET AT FAIRMONT HOTEL)
VTA TOUR	9:00 AM - 12:30 PM	(MEET AT FAIRMONT HOTEL)
REGISTRATION OPEN	6:30 AM - 4:00 PM	(SJSU WALKWAY)
EXHIBITOR SETUP	8:00 AM - 11:30 AM	(SJSU WALKWAY)
JRC CONFERENCE LUNCHEON	12:30 PM - 1:30 PM	(SJSU BALLROOM B)
TECHNICAL SESSIONS	1:45 PM - 3:30 PM	(SEE DETAILED PROGRAM)
TECHNICAL SESSIONS	3:45 PM - 5:30 PM	(SEE DETAILED PROGRAM)
KEYNOTE: NORMAN MINETA, SECRETARY (RET), US DOT	5:45 PM - 6:30 PM	(SJSU THEATRE)

## WEDNESDAY MARCH 25

CONTINENTAL BREAKFAST	7:00 AM - 7:45 AM	(SJSU BALLROOM B)
REGISTRATION OPEN 7:00 AM -	1:30 PM	(SJSU WALKWAY)
PLENARY SESSION	8:00 AM - 10:00 AM	(SJSU THEATRE)
TECHNICAL SESSIONS	10:15 AM - 12:00 PM	(SEE DETAILED PROGRAM)
JRC CONFERENCE LUNCHEON	12:15 PM - 1:15 PM	(SJSU BALLROOM B)
TECHNICAL SESSIONS	1:30 PM - 3:15 PM	(SEE DETAILED PROGRAM)
TECHNICAL SESSIONS	3:30 PM - 5:15 PM	(SEE DETAILED PROGRAM)
RECEPTION	6:30 PM - 7:00 PM	(SJSU WALKWAY)
BANQUET & KEYNOTE SPEAKER	7:00 PM - 8:30 PM	(SJSU BALLROOM B)

**THURSDAY MARCH 26**

CONTINENTAL BREAKFAST	7:00 AM - 7:45 AM	(SJSU BALLROOM B)
REGISTRATION OPEN	7:00 AM - 9:00 AM	(SJSU WALKWAY)
TECHNICAL SESSIONS	8:00 AM - 9:45 AM	(SEE DETAILED PROGRAM)
TECHNICAL SESSIONS	10:00 AM - 11:45 AM	(SEE DETAILED PROGRAM)
JRC CONFERENCE LUNCHEON	12:00 PM - 1:15 PM	(SJSU BALLROOM B)

**KEYNOTE SPEAKER  
NORMAN MINETA  
Secretary (Retired), Department of Transportation**



**"Globalization in an era of concerns over energy, security, and climate change is presenting unprecedented challenges for the world's transportation companies and infrastructure."**

Norman Y. Mineta was appointed the United States Secretary of Transportation by President George W. Bush in 2001, where he served until his retirement from public service in 2006. Following the terrorist attacks of September 11, 2001, Secretary Mineta guided the creation of the Transportation Security Administration, an agency with more than 65,000 employees and the largest mobilization of a new federal agency since World War II. Following his retirement, he joined Hill & Knowlton as vice chairman based in its Washington DC office, where he provided counsel and strategic advice the agency's clients on a wide range of business and political issues, including expertise in transportation (aviation, surface transportation, and infrastructure) and national security. He is recognized for his accomplishments in economic development, science and technology policy, foreign and domestic trade, the environment, budgetary issues, and civil rights. Secretary Mineta also served President Bill Clinton as Secretary of Commerce. Previously, he served in Congress for more than 20 years. He started his public career in San Jose, California, first on the City Council, then as Mayor, and then from 1975 to 1995 as a Member of Congress. Secretary Mineta was vice president of Lockheed Martin before joining the Commerce Department, where he oversaw the first successful implementation of the EZ-Pass system in New York State. Among his numerous accomplishments, Secretary Mineta received the Presidential Medal of Freedom, the highest civilian honor in the US, and the Wright Brothers Memorial Trophy, awarded for significant public service of enduring value to aviation in the United States. While in Congress, he co-founded the Congressional Asian Pacific American Caucus, and chaired the National Civil Aviation Review Commission in 1999. He is a graduate of the University of California, Berkeley.

**PLENARY SPEAKERS**



**JEFF MORALES IS THE CHIEF EXECUTIVE OFFICER OF THE CALIFORNIA HIGH-SPEED RAIL AUTHORITY AND HAS A DISTINGUISHED RECORD OF EXPERIENCE MANAGING LARGE AND COMPLEX TRANSPORTATION ISSUES AND PROJECTS. As the former Director of the California Department of Transportation, Morales managed a \$10 billion program and more than 23,000 employees working to build, maintain and operate the largest state**

transportation system in the U.S. Morales most recently was Senior Vice President of Parsons Brinckerhoff, where he worked with transportation agencies across the United States and internationally to develop and implement major capital programs and is the past executive vice president of the Chicago Transit Authority where he spearheaded major reforms at the nation's second-largest transit agency. His experience at the federal level includes serving as a member of President-Elect Obama's transition team focusing on transportation, Vice President Al Gore's National Performance Review, the White House Commission on Aviation Safety and Security, the United States Department of Transportation and as U.S. Senate staff.



**NURIA FERNANDEZ, GENERAL MANGER AND CHIEF EXECUTIVE OFFICER OF VTA, PLANS, ORGANIZE, DIRECT AND ADMINISTER ALL FUNCTIONS OF VTA, UNDER POLICY DIRECTION OF THE BOARD.** Ms. Fernandez has responsibility for all Divisions of the Authority required to operate, maintain and implement key programs including expansion of bus and rail service, construction of mass transit facilities, extension of the regional heavy rail system (BART), and planning and construction of highway and other related projects. She is also responsible for transit legislation, policy development and serves as an intergovernmental liaison with federal, state and local governments.

Ms. Fernandez is a Senior Executive with over 30 years of experience in the transportation field and a professional career that includes, planning, design and construction of mass transit systems, airport operations and policy development of federal transportation programs. Nuria previously served as Chief Operating Officer for the New York State Metropolitan Transportation Authority, (MTA) where she was responsible for the overall security of the MTA system, development of its capital and environmental sustainability programs, federal and state government affairs and management oversight of the five operating agencies and its capital construction.

Her additional experience and accomplishments include managing the operations of O'Hare International Airport; providing high-level policy and program expertise at the U.S. Department of Transportation and managing the design and construction of multi-billion dollar rail expansion programs in Chicago and Washington, D.C.

Ms. Fernandez has a B.S. in Civil Engineering from Bradley University and an MBA from Roosevelt University in Illinois. Nuria serves as a member of the Leadership American Public Transportation Association (APTA) Committee, and APTA's Legislative Committee and the Public/Private Partnership Committee. Nuria is also on the Mineta Transportation Institute's Board of Trustees and the Advisory Board of Bradley University's College of Engineering and Technology. She is a member of the Conference of Minority Transportation Officials, The New York Economic Club, The Chicago Network, the International Women's Forum and the Women's Transportation Seminar (WTS).



**BERNARD L. WEINSTEIN IS ASSOCIATE DIRECTOR OF THE MAGUIRE ENERGY INSTITUTE AND AN ADJUNCT PROFESSOR OF BUSINESS ECONOMICS IN THE COX SCHOOL OF BUSINESS AT SOUTHERN METHODIST UNIVERSITY IN DALLAS.** From 1989 to 2009 he was Director of the Center for Economic Development and Research at the University of North Texas, where he is now an Emeritus Professor of Applied Economics.

Dr. Weinstein studied public administration at Dartmouth College and received his A.B. in 1963. After a year of study at the London School of Economics and Political Science, he began graduate work in economics at Columbia University, receiving an M.A. in 1966 and a Ph.D. in 1973. He has taught at Rensselaer Polytechnic Institute, the State University of New York, the University of

Texas at Dallas, and the University of North Texas. He has been a research associate with the Tax Foundation in Washington, D.C. and the Gray Institute in Beaumont, Texas. He has worked for several U.S. government agencies including the President's Commission on School Finance, the Internal Revenue Service and the Federal Trade Commission.

Dr. Weinstein has authored or co-authored numerous books, monographs and articles on the subjects of economic development, energy security, public policy and taxation, and his work has appeared in professional journals such as *Land Economics*, *Challenge*, *Society*, *Policy Review*, *Economic Development Quarterly*, *Policy Studies Journal*, and *Annals of Regional Science*. His op-eds have been published in *The New York Times*, *The Wall Street Journal*, *The Washington Times*, *Investor's Business Daily*, *The Financial Times*, *The Los Angeles Times* and a number of regional newspapers and magazines. He is also a regular contributor to the *National Journal's* Energy and Environment blog and *The Hill*.

Dr. Weinstein has been a consultant to many companies, non-profit organizations and government agencies, and he testifies frequently before legislative, regulatory and judicial bodies. His clients have included AT&T, Texas Instruments, Reliant, Entergy, Devon Energy, Energy Futures Holdings, the Nuclear Energy Institute, the American Petroleum Institute, the U.S. Conference of Mayors, the Western and Southern Governors Associations, the Cities of Dallas and San Antonio, and the Joint Economic Committee of the U.S. Congress.

Dr. Weinstein was director of federal affairs for the Southern Growth Policies Board from 1978 to 1980 and served as director

of the Task Force on the Southern Economy of the 1980 Commission on the Future of the South. From 1984 to 1987 he was chairman of the Texas Economic Policy Advisory Council and from 1987 to 1988 served as visiting scholar with the Sunbelt Institute in Washington, D.C. He is currently a panelist with the Western Blue Chip Economic Forecast. Dr. Weinstein is a member of the Dallas-Fort Worth Association for Business Economics and serves on the boards of directors of Beal Bank Texas and Beal Bank USA. From 2011 to 2014 he was a Fellow with the George W. Bush Institute, and he is currently an Associate of the John Goodwin Tower Center for Political Studies at SMU and a Fellow of Goodenough College in London.

## **KEYNOTE SPEAKER ROD DIRIDON, SR**



FROM 1995 TO HIS RETIREMENT IN 2014, ROD DIRIDON, SR., WAS EXECUTIVE DIRECTOR OF THE MINETA TRANSPORTATION INSTITUTE (MTI), A TRANSPORTATION POLICY RESEARCH CENTER CREATED IN 1991 BY CONGRESS. He is known as the “father” of modern transit service in Silicon Valley and has chaired more than 100 international, national, state and local programs, most related to transit and the environment. In 2014 he was honored to receive American Public Transportation Association’s (APTA) Hall of Fame Award. He frequently provides legislative testimony on sustainable transportation issues.

Mr. Diridon was appointed in 2001 and 2005 by Governors Davis and Schwarzenegger, respectively, to the California High Speed Rail Authority Board of which he is chair emeritus. He helped found and is chair emeritus of the APTA High Speed and Intercity Rail Committee and National High Speed Rail Corridors' Coalition. He served as president of the national Council of University Transportation Centers and was recently elected chair of the US High Speed Rail Association’s Board.

In 1992, he served as the chair of APTA in Washington DC and for a decade as North American vice chair of the International Transit Association (UITP) in Brussels. In 1976, he chaired the state’s first successful local half-cent sales tax for transit and subsequently chaired a state-wide and four successful regional transportation financing and bond elections.

In 1996 he founded and chaired the Transportation Research Board's study panel, “Combating Global Warming through Sustainable Transportation Policy.” He advised the Federal Transit Administration and in 1995 chaired the National

Research Council's Transportation Research Board's Transit Oversight and Project Selection Committee. He has provided keynotes, especially for high speed rail and sustainability, in more than 50 US cities and for a dozen international conferences, and he has published numerous related articles. He has driven electric cars since 1996 and his home’s photovoltaic array is a net contributor to the grid. Since 1995 he has chaired the region’s League of Conservation Voters Board and is a Life Member of the Sierra Club.

His political career began in 1971 as the youngest person ever elected to the Saratoga City Council. He retired in 1995 because of term limits after completing six terms as chair of both the Santa Clara County Board of Supervisors and the Transit Board. He is the only person to have chaired the San Francisco Bay Area's (119 cities, 27 transit agencies, and 9 counties) three regional governments: the Metropolitan Transportation Commission, the Bay Area Air Quality Management District, and the Association of Bay Area Governments. He chaired nine successful rail system development project boards. The region’s main train station was renamed the “San Jose Diridon Station” upon his retirement from public office.

After receiving a BS in accounting and MSBA in statistics in 1963 from San Jose State University, he served two tours as a naval officer in Vietnam. In 1968 he founded the Decision Research Institute which was sold in 1977 after his election.

## V. Terrey Hawthorne Memorial Scholarship Fund Activity Report

The American Society of Mechanical Engineers (ASME) Rail Transportation Division (RTD) continues to be a strong supporter of collegiate researchers, both professors and students, who play a vital role in the advancement of the rail industry. To this end, the ASME RTD offers the ASME RTD Graduate and Undergraduate Student Scholarships, which give students the opportunity to network with rail professionals, present rail research publications, and exchange ideas on rail technological innovations and solutions at the ASME Joint Rail Conference (JRC). Most importantly, the scholarships increase the awareness of the rail engineering discipline from both an academic and professional perspective.

Since 2011, the ASME Rail Transportation Division has awarded \$73,850.00 in student conference scholarships to 71 deserving graduate and undergraduate students enrolled at U.S. colleges and universities with an interest in rail.

In support of the 2015 ASME Joint Rail Conference, a total of **20** Graduate Student Scholarship applications and **3** undergraduate applications have been accepted.

Please note that additional scholarship details and requirements may apply. For additional scholarship details and requirements, please visit the 2015 ASME JRC website. Scholarships will be offered again for the 2016 JRC

### *ASME RTD Graduate Student Conference Scholarship*

**Purpose:** Fund travel, lodging, and conference registration expenses for scholarship awardees selected to attend and present their research publication at the ASME Joint Rail Conference.

**Award Amount:** \$1,100.00 USD

#### **Requirements:**

- The student must be enrolled full-time and attending a U.S. college or university.
- The student must submit an abstract(s) and written paper(s) for the ASME Joint Rail Conference and have them accepted through the publication process. **Note:** *If you are an undergraduate student who has submitted an ASME technical paper for the conference, you are not required to submit an essay, but you are required to submit the undergraduate application to be considered for the undergraduate scholarship.*
- The paper topic(s) must be relevant to the rail industry.
- The student must be lead author of the accepted paper(s).
- The student must complete and return the ASME RTD Graduate Student Scholarship application to rtdscholar@gmail.com by the deadline specified.
- The student must receive written notification from the ASME RTD Scholarship Committee indicating award of the scholarship.
- The student must deliver an oral presentation of the paper(s) in person at the conference.
- In order to be issued the scholarship, the student must be registered for the full conference as a student and must provide a completed Request for Taxpayer Identification Number and Certification Form (W-9) in PDF format for his/her college/university. The completion of the form is required for tax purposes and will need to be returned to the Scholarship Program Chair by the deadline specified. **Note:** *W-9 Forms are not requested until after students have been notified of scholarship award and should indicate college/university tax information not the applicant's tax information. In addition, only one W-9 Form should be submitted per college/university.*

## *ASME RTD Undergraduate Student Conference Scholarship*

**Purpose:** Fund travel, lodging, and conference registration expenses for scholarship awardees selected to attend the ASME Joint Rail Conference.

**Award Amount:** \$850.00 USD

### **Requirements:**

- The student must be enrolled full-time and attending a U.S. college or university.
- The student must be enrolled in an undergraduate engineering program at their university, college, or technical college.
- The student must be of Junior or Senior status.
- The student must submit a minimum 250-word essay outlining why they should be selected to attend the conference and what they hope to gain through attendance (or what the student could contribute to the rail industry). Or, alternatively, a minimum 250-word essay can be submitted that suggests a solution to a real-world rail industry problem.  
***Note:** If you are an undergraduate student who has submitted an ASME technical paper for the conference, you are not required to submit an essay, but you are required to submit the undergraduate application to be considered for the undergraduate scholarship. If your technical publication is accepted and you are awarded the scholarship, the award will be in the amount of \$850.00 USD.*
- The student must complete and return the ASME RTD Undergraduate Student Scholarship application and essay to [rtdscholar@gmail.com](mailto:rtdscholar@gmail.com) by the deadline specified.
- The student must receive written notification from the ASME RTD Scholarship Committee indicating award of the scholarship.
- In order to be issued the scholarship, the student must be registered for the full conference as a student and must provide a completed Request for Taxpayer Identification Number and Certification Form (W-9) in PDF format for his/her college/university. The completion of the form is required for tax purposes and will need to be returned to the Scholarship Program Chair by the deadline specified. ***Note:** W-9 Forms are not requested until after students have been notified of scholarship award and should indicate college/university tax information not the applicant's tax information. In addition, only one W-9 Form should be submitted per college/university.*

In addition to the \$850.00 USD undergraduate scholarship award for reimbursement of travel-related expenses to attend the conference, one undergraduate student will be selected to receive an additional award for “Best Essay” based on the quality of his or her essay. Details of the award will be provided during the conference banquet where the award will be presented.

## **COMPLETE YOUR PROFILE ON ASME.ORG**

Have you filled out your profile in ASME.org? If not you should make this a priority as it allows you access to the Rail Transportation Division Group Page as well as your Technical Committee Group page. If you have a LinkedIn account, you can quickly import information to complete your ASME.org profile.

Once you complete your profile you can then participate in an existing online group or create your own group based on a specific engineering discipline, your interests, or even your university alumni. You manage group participation, content, tools, and activities. The rich suite of ASME.org functionalities makes it easy for you to lead and grow your own group. It's a great opportunity to network, collaborate, and showcase your leadership skills to like-minded engineers.

ASME RAIL TRANSPORTATION DIVISION  
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