CALL FOR PAPERS & PRESENTATIONS
Abstracts due by September 14, 2015 at http://go.asme.org/JRC
2016 Joint Rail Conference
University of South Carolina
Columbia, SC
April 12-15, 2016

JRC 2016 is the major, multidisciplinary North American railroad conference encompassing all aspects of rail transportation and engineering research. Individuals interested in making presentations or giving papers are encouraged to submit abstracts. Topics of interest include but are not limited to:

**Railroad Infrastructure Engineering**
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.

**Energy Efficiency and Sustainability**
Energy conservation and efficiency, energy storage modeling, hybrid vehicles, emissions reduction and control and alternative energy sources.

**Rail Equipment Engineering**
Motive power technology, vehicle/track interaction, wheels, couplers, components, rolling stock design, manufacturing, materials, and maintenance.

**Service Quality and Operations Research**
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.

**Planning and Development**
Project management, planning & financing, new start and expansion development, service planning, environmental impact, and workforce development.

**Urban Passenger Rail Transport**
Investigations, insights, innovations, and implementations in all aspects of urban passenger rail transport.

**Electrification**
Catenary design, third rail design, traction power substation design, materials, safety, efficiency, electrification approaches, design for high speeds, electromagnetic compatibility (EMC), corrosion control, load flow simulation, energy savings, energy storage devices, regenerative braking, smart electrical supply.

**Signal, Train Control and Communications Engineering**
Systems integration, track and wayside components, equipment components, positive train control, interoperability, communications and microprocessor control.

**Safety and Security**
System safety approaches, safety data management, risk analysis approaches, accident avoidance, accident survivability, train and employee safety, human-factors-informed safety improvements, hazmat risk management, security assurance, emergency preparedness and response.

**Vehicle-Track Interaction**
Wheel/rail contact, best practices in testing methods and modeling tools, passenger and freight applications.

Abstracts may be submitted to: http://go.asme.org/JRC. Please provide abstracts in English and limit size to 400 words. 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.

The ASME Rail Transportation Division is offering a limited number of conference scholarships. For specific details and questions regarding the scholarship program, please contact Monique Stewart, FRA-RSEC.PMO@dot.gov

Joint Rail Conference co-sponsoring organizations:

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