

# 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.

### Rail Equipment Engineering

Motive power technology, vehicle/track interaction, wheels, couplers, components, rolling stock design, manufacturing, materials, and maintenance

### 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

### Signal, Train Control and Communications Engineering

Systems integration, track and wayside components, equipment components, positive train control, interoperability, communications and microprocessor control

### Vehicle-Track Interaction

Wheel/rail contact, best practices in testing methods and modeling tools, passenger and freight applications.

### Energy Efficiency and Sustainability

Energy conservation and efficiency, energy storage modeling, hybrid vehicles, emissions reduction and control and alternative energy sources

### 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

### 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

### 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

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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](mailto:FRA-RSEC.PMO@dot.gov)

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### Joint Rail Conference co-sponsoring organizations:



The Rail Transportation Division



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### In Cooperation With

