



MARCH 23-26, 2015 • SAN JOSE, CA

JOINT RAIL CONFERENCE



CALL FOR PAPERS & PRESENTATIONS

Abstracts due by September 15, 2014

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Railroad Engineering Technology – Learning from the Past, Building for the Future

JRC 2015 is the major, multidisciplinary North American railroad conference encompassing all aspects of rail transportation and engineering research.

Track 1: Railroad Infrastructure Engineering

Design, engineering, and construction of track, bridge structures and grade crossings. Geotechnical engineering of track substructure and right-of-way. Best practices and advances in technology for the inspection and maintenance of the railroad infrastructure.

Track 2: Rail Equipment Engineering

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

Track 3: Signal and Train Control Engineering

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

Track 4: 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

Track 5: Planning and Development

Project management, planning & financing, new start and expansion development, service planning, environmental impact, and workforce development

Track 6: 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

Track 7: Energy Efficiency and Sustainability

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

Track 8: Urban Passenger Rail Transport

Investigations, insights, innovations, and implementations in all aspects of urban passenger rail transport

Track 9: Electrification

Catenary design, third rail 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

Abstract can be submitted to: www.asmeconferences.org/JRC2015. 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

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