Track Maintenance Planning in the Era of Big Data
University of Delaware, Newark, DE 19716
December 9, 2014
A One Day Mini-Conference on Converting the “Mountain” of Inspection Data Collected by Railway Systems into Effective Maintenance Planning Information

Program

8:00 AM Welcome and introduction to the needs of the railroad industry
- Professor Charles Riordan, Vice Provost for Research, University of Delaware
- Professor B. Ogunnaike, Dean of College of Engineering, University of Delaware
- Professor Tripp Shenton, Chairman Department of Civil and Environmental Engineering, University of Delaware
- David E. Staplin, Deputy Chief Engineer, Amtrak

9:00 AM Session I: Track Inspection and Data Collection: “State of the Art”
- Eric Sherrock, Program Manager, Ensco, Inc.
- Gregory Grissom, Vice President Engineering, Georgetown Rail
- Daniel Magnus, Vice President, KLD Labs, Inc.
- Cameron Stuart, Program Manager, Federal Railroad Administration
- Robert Newman, Chief Executive Office, M-Rail

10:30 AM Session II: Railroad Maintenance Planning - How It is Done Today
- Gregory Mellish, Assistant Chief Engineer Inspection Process, CSX Transportation
- Steven Chrismer, Sr. Principal Engineer-Track Geometry, Amtrak
- Dwight W. Clark, Assistant Chief Engineer-Engineering Technology and Strategy- Union Pacific Railroad
- John A Mauldin, Engineer Rail Testing, Norfolk Southern Railway
- Arthur Charrow, General Director Planning and Maintenance, BN

12:00 PM Lunch - Sponsored by Harsco Rail

1:00 PM Session III: Emerging Data Analysis Techniques
- Professor Nii Attoh-Okine, University of Delaware
- Professor Yaw Adu-Gyamfi, University of Iowa
- Professor Michela Taufer, University of Delaware

2:30 PM Session IV: Application and Case Studies
- Professor Allan M Zarembski, University of Delaware. Using Big Data Techniques to Determine the Relationship between Rail Defects and Track Geometry Defects
- Todd Euston, Senior Engineer Inspection Technology, Georgetown Rail and John Cronin, University of Delaware. Using Big Data Techniques to Determine the Relationship between Ballast Condition and Track Geometry Defects
- Joseph Palese, Senior Director Inspection Services, Harsco Rail. Large Scale Data Analysis Techniques in Grinding Planning and Management
- Offei Adarkwa, University of Delaware. Using Big Data Techniques to for Analysis of Video Images and Crack Detection

4:00 Program Ends