

# PRINCIPLES COURSE

*June 10, 2025*

7:00 AM	ON-SITE REGISTRATION + BREAKFAST IN THE EXPOZONE
8:00 AM	WELCOME + INTRODUCTORY REMARKS
8:25 AM	INTRODUCTION AND PRINCIPLES COURSE OVERVIEW DAVID CASACELI (MODERATOR) NATIONAL TRANSPORTATION SAFETY BOARD
8:55 AM	SESSION 1: TRACK STRUCTURES AND COMPONENTS J. RILEY EDWARDS, UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN NATIONAL UNIVIVERSITY RAIL CENTER OF EXCELLENCE
9:50 AM	BREAK IN THE EXPOZONE
10:25 AM	SESSION 2: VEHICLE TYPES, SUSPENSIONS AND COMPONENTS ELTON TOMA, NRC CANADA
11:20 AM	SESSION 3: WHEEL-RAIL CONTACT: AN INTRODUCTION RICHARD STOCK, PLASSER & THEURER + KEVIN OLDKNOW, SIMON FRASER UNIVERSITY
12:15 PM	LUNCH IN THE EXPOZONE
1:35 PM	SESSION 4: VEHICLE-TRACK INTERACTION & DYNAMICS ALEXANDRE WOELFLE, NRC CANADA
2:30 PM	SESSION 5: WHEEL-RAIL DAMAGE MECHANISMS RICHARD STOCK, PLASSER & THEURER
3:25 PM	BREAK IN THE EXPOZONE
4:00 PM	SESSION 6: VEHICLE-TRACK MEASUREMENT TECHNOLOGIES RAFAEL MALDONADO, ENSCO, INC.
4:55 PM	SESSION 7: CASE STUDY WRAP UP AND DISCUSSION DAVID CASACELI, NATIONAL TRANSPORTATION SAFETY BOARD
5:20-5:35 PM	CLOSING REMARKS
5:45-7:15 PM	HEAVY HAUL WELCOME RECEPTION & REGISTRATION



# HEAVY HAUL SEMINAR

*Day 1: June 11, 2025*

7:00 AM	ON-SITE REGISTRATION + BREAKFAST IN THE EXPOZONE
8:00 AM	WELCOME + INTRODUCTORY REMARKS
8:25 AM	SESSION 1: EXTENDING RAIL LIFE IN HEAVY HAUL RAILROADS: THE ROLE OF ELASTIC COMPONENTS IN TRACK PERFORMANCE ANTONIO MERHEB, INTERNATIONAL HEAVY HAUL ASSOCIATION
9:10 AM	SESSION 2 & 3: INFOZONES 1 + 2
10:25 AM	BREAK IN THE EXPOZONE
11:00 AM	SESSION 4: L/V RATIOS: WHAT DO THEY MEAN? YI WANG, MXV RAIL + STEPHEN WILK, MXV RAIL
11:45 AM	SESSION 5: EXAMINING THE EFFECT OF TOTAL FRICTION MANAGEMENT ON RAIL WEAR ON CPKC'S THOMPSON SUBDIVISION MARCO SANTORO, L.B. FOSTER + GREG HARRINGTON, CPKC
12:30 PM	LUNCH IN THE EXPOZONE
1:35 PM	SESSION 6: UTILIZING MACHINED RAIL INSERTS TO FACILITATE MAINTENANCE IN CWR KRISTOPHER KOSKI, ONE RAIL GROUP + CHRISTOPHER LORREN, NORFOLK SOUTHERN
2:20 PM	SESSION 7: INFOZONE 3
3:05 PM	SESSION 8: WORTH AWARD PRESENTATION
3:35 PM	BREAK IN THE EXPOZONE
4:10 PM	SESSION 9: RISK MANAGEMENT IN TRAIN MARSHALLING THROUGH REAL DATA ANALYSIS ALI FARHANGFAR, CPKC
4:50 PM	SESSION 10: TRAIN MARSHALLING TO IMPROVE OPERATIONAL RELIABILITY AND PERFORMANCE OF MANIFEST TRAINS AT CANADIAN NATIONAL NGOAN DO, CN + DOUG BAILEY, CN
5:35-5:45 PM	CLOSING REMARKS
6-8:00 PM	GRAND BUFFET RECEPTION



# HEAVY HAUL SEMINAR

*Day 2: June 12, 2025*

7:00 AM	ON-SITE REGISTRATION + BREAKFAST IN THE EXPOZONE
8:10 AM	WELCOME + INTRODUCTORY REMARKS
8:25 AM	SESSION 11: WHEEL/RAIL INTERACTION: 30 YEARS OF TEARS AND CHEER MIKE RONEY, IRON MUSTACHE CONSULTING
9:10 AM	SESSION 12 & 13: INFOZONES 4 + 5
10:25 AM	BREAK IN THE EXPOZONE
11:00 AM	SESSION 14: ENHANCING RAILWAY SAFETY THROUGH TECHNOLOGY- DRIVEN TRAIN INSPECTIONS SOLANGE DE BLOIS, CPKC
11:45 AM	SESSION 15: CPKC'S TRACK GEOMETRY PROGRAM – MAKING THE MOST OF ATIP DATA TYLER KERR, CPKC + RAFAEL MALDONADO, ENSCO, INC.
12:30 PM	LUNCH IN THE EXPOZONE
1:35 PM	SESSION 16: MITIGATING DERAILMENT RISK AT SWITCH POINTS AND GUARD RAILS COREY PASTA + URLICH SPANGENBERG, MXV RAIL + ZACH DOMBROW, BNSF
2:20 PM	BREAK IN THE EXPOZONE
2:55 PM	SESSION 17: ANALYTICAL ASSESSMENT OF THE EFFECTS OF LOCOMOTIVE WHEEL FLANGE LUBRICATION WAYNE KENNEDY, KENNEDY CONSULTING + ROBERT STEVENS, FIRST ANALYTICS
3:40 PM	SESSION 18: “TEA NEXUS” OF TRAIN CONTROL, ENERGY AND AUTOMATION C. TYLER DICK, UNIVERSITY OF TEXAS AT AUSTIN
4:25-4:45 PM	CLOSING REMARKS + INFOZONE RAFFLE
4:45-6:15PM	END OF THE LINE RECEPTION