

PRINCIPLES COURSE

June 10, 2025

7:00 AM	ON-SITE REGISTRATION + BREAKFAST IN THE EXPOZONE
8:00 AM	WELCOME + INTRODUCTORY REMARKS
8:20 AM	INTRODUCTION AND PRINCIPLES COURSE OVERVIEW DAVID CASACELI (MODERATOR) NATIONAL TRANSPORTATION SAFETY BOARD
8:45 AM	SESSION 1: TRACK STRUCTURES AND COMPONENTS J. RILEY EDWARDS, UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN NATIONAL UNIVERSITY RAIL CENTER OF EXCELLENCE
9:40 AM	BREAK IN THE EXPOZONE
10:00 AM	SESSION 2: VEHICLE TYPES, SUSPENSIONS AND COMPONENTS ELTON TOMA, NRC CANADA
10:55 AM	SESSION 3: WHEEL-RAIL CONTACT: AN INTRODUCTION RICHARD STOCK, PLASSER & THEURER + KEVIN OLDKNOW, SIMON FRASER UNIVERSITY
11:50 AM	LUNCH IN THE EXPOZONE
1:10 PM	SESSION 4: VEHICLE-TRACK INTERACTION & DYNAMICS ALEXANDRE WOELFLE, NRC CANADA
2:05 PM	SESSION 5: WHEEL-RAIL DAMAGE MECHANISMS RICHARD STOCK, PLASSER & THEURER
3:00 PM	BREAK IN THE EXPOZONE
3:20 PM	SESSION 6: VEHICLE-TRACK MEASUREMENT TECHNOLOGIES MATTHEW DICK, ENSCO, INC.
4:15 PM	SESSION 7: CASE STUDY WRAP UP AND DISCUSSION GEROGE FOWLER, TRANSPORTATION SAFETY BOARD CANADA (RETIRED) + DAVID CASACELI, NATIONAL TRANSPORTATION SAFETY BOARD
4:40-4:55 PM	CLOSING REMARKS
5-6:30 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
8:20 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
10:15 AM	BREAK IN THE EXPOZONE
10:45 AM	SESSION 4: L/V RATIOS: WHAT DO THEY MEAN? YI WANG, MXV RAIL + STEPHEN WILK, MXV RAIL
11:30 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
12:15 PM	LUNCH IN THE EXPOZONE
1:15 PM	SESSION 6: UTILIZING MACHINED RAIL INSERTS TO FACILITATE MAINTENANCE IN CWR KRISTOPHER KOSKI, ONE RAIL GROUP + CHRISTOPHER LORREN, NORFOLK SOUTHERN
2:05 PM	SESSION 7: INFOZONE 3
2:40 PM	SESSION 8: WORTH AWARD PRESENTATION
3:10 PM	BREAK IN THE EXPOZONE
3:40 PM	SESSION 9: RISK MANAGEMENT IN TRAIN MARSHALLING THROUGH REAL DATA ANALYSIS ALI FARHANGFAR, CPKC
4:25 PM	SESSION 10: TRAIN MARSHALLING TO IMPROVE OPERATIONAL RELIABILITY AND PERFORMANCE OF MANIFEST TRAINS AT CANADIAN NATIONAL NGOAN DO, CN + DOUG BAILEY, CN
5-5:15 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

8:15 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

10:15 AM

BREAK IN THE EXPOZONE

10:45 AM

SESSION 14: ENHANCING RAILWAY SAFETY THROUGH TECHNOLOGY-DRIVEN TRAIN INSPECTIONS
SOLANGE DE BLOIS, CPKC

11:30 AM

SESSION 15: CPKC'S TRACK GEOMETRY PROGRAM – MAKING THE MOST OF ATIP DATA
TYLER KERR, CPKC + RAFAEL MALDONADO, ENSCO, INC.

12:10 PM

LUNCH IN THE EXPOZONE

1:15 PM

SESSION 16: MITIGATING DERAILMENT RISK AT SWITCH POINTS AND GUARD RAILS
COREY PASTA + URLICH SPANGENBERG, MXV RAIL + ZACH DOMBROW, BNSF

2:00 PM

BREAK IN THE EXPOZONE

2:30 PM

SESSION 17: ANALYTICAL ASSESSMENT OF THE EFFECTS OF LOCOMOTIVE WHEEL FLANGE LUBRICATION
WAYNE KENNEDY, KENNEDY CONSULTING + ROBERT STEVENS, FIRST ANALYTICS

3:15 PM

SESSION 18: "TEA NEXUS" OF TRAIN CONTROL, ENERGY AND AUTOMATION
C. TYLER DICK, UNIVERSITY OF TEXAS AT AUSTIN

4-4:30 PM

CLOSING REMARKS + INFOZONE RAFFLE

4:30-6PM

END OF THE LINE RECEPTION