

# NAFE 2019 Summer Conference Technical Program – 7 PDHs – Saturday, July 27 – Denver



- 7:00 am Round Table Discussion (includes breakfast)
- 8:15 am Opening Remarks and Introductions – John Certuse, PE (2019 NAFE President)

## MORNING TRACK 1 — CIVIL/STRUCTURAL

- 9:00-9:40 Rune Storesund, PhD, PE – “Forensic Evaluation of Ground Vibrations & Noise in an Urban Drainage Project”
- 9:40-10:20 Ronald Bova, PE – “Forensic Analysis of 1960s Steel Tower Failure”
- 10:20-11:00 Robert Murray, PE – “Condition Assessment of a Green Roof Assembly”
- 11:00-11:40 Open

## MORNING TRACK 2 — VEHICLES

- 9:00-9:40 David Danaher, PE – “FE Analysis of a Wheel Spindle Failure due to Pre-Load and Fatigue”
- 9:40-10:20 Richard M. Ziernicki, PhD, PE, Martin E. Gordon, PE, Angelos G. Leiloglou and Steve Knapp, PE – “The Application of Matchmoving for Forensic Video Analysis of a Fatal Sprint Car Accident. Part 1”
- 10:20-11:00 Richard M. Ziernicki, PhD, PE, Martin E. Gordon, PE, Angelos G. Leiloglou and Steve Knapp, PE – “The Application of Matchmoving for Forensic Video Analysis of a Fatal Sprint Car Accident. Part 2”
- 11:00-11:40 Shawn Ray, PE – “FE Analysis of a Crash Caused by Swingout of an Articulated Booster on a Semi-Trailer”

## End of morning sessions

- 11:40 Membership Meeting, BOD Activities Report – John Certuse, PE
- 12:30 Round Table Discussion (includes lunch)
- 1:00 Journal Authors and Peer Reviewers Workshop (not for PDH credit)

## AFTERNOON TRACK 1 — GENERAL

- 2:00-2:40 Curtis Falany, PE – “Forensic Investigation of Electric Shock Drowning: Speculation vs. Reality”
- 2:40-3:20 George Samarus, PhD, PE – “Ergonomic Considerations in Forensic Engineering”
- 3:20-4:00 Stephen Batzer, PhD, PE – “Forensic Engineering Analysis of Weapons Incidents”
- 4:00-4:40 Robert Peruzzi, PhD, PE – “FE Analysis of Communication Systems for Drive-Through Restaurants in a Business Dispute over Quality Specifications and Design Process”

## AFTERNOON TRACK 2 — MECHANICAL

- 2:00-2:40 Daniel Couture, PEng – “Forensic Engineering Investigation of the Catastrophic Breakdown of a Diesel Engine an Emergency Generator Set”
- 2:40-3:20 Richard M. Ziernicki, PhD, PE and Ricky Nguyen, PE – “FE Analysis of a Fatal Overhead Crane Accident”
- 3:20-4:00 Daniel Cowley, PE – “Forensic Engineering Analysis of a Failed Roll-Over Protective Structure (ROPS)”
- 4:00-4:40 Daniel Couture, PEng and Shawn M. Jay, PEng – “Forensic Engineering Investigation of a Self-Unloading Boom Collapse on a Great Lakes Freighter”

## End of afternoon sessions

- 4:40-5:00 Follow-up Q & A Session for Technical Presentations
- 5:00 Adjourn