What's new in Safe School Transport?

Bruce Landsberg – Vice Chairman, NTSB
Background check …

- Attended NAPT in CMH – and heard my speech
- Attended NAPT in CMH – but were checking Facebook
- Did not attend CMH.
• What happened – The investigation

• Why it happened – make recommendations

• Conduct safety studies and reviews

• Prevent future occurrences – advocacy !!
GO Team – the investigation

- Launch: 4-24 hours
- IIC, additional support as req’d
- On scene: approx. 3-6 days
- Preliminary: 1-2 weeks
- Factual: 8 – 24 months
- Final: 24 months
Pop Quiz – “Crash” vs “Accident?”
Whence Recommendations ??

- Data from crashes or special report
- Staff Reviews – *(Discussion & Modification)*
- Board Approves – *(Arm Wrestling/Modification)*
What hasn't changed since last year ????

• Shortest measurable period of time ?

The Zeptosecond ???
What hasn't changed

- Pauli's Exclusion Theory

Don't try this at home or with your Bus !!!!
What hasn't changed

- Driving Impaired – Alcohol or Drugs
- OTC, Prescription or Recreational
- Federal Law Applies if a CDL is required
Y’all be careful ...
Fit to Drive?
It’s Not Just Driving....
Fit to Drive ??

Oakland, IA
What hasn't changed

Pass Physical Performance Test
Recommendations – Just DO IT!!!!

• Drivers **must** be fit – at **least** annual testing
  - Physically
  - Medically
  - Emotionally
We’re all better than that ….
What hasn't changed

- Dunning - Kreuger Effect is still in effect
Illusory Superiority (Dunning-Kruger Effect)

- Anything you can do…..
- 94% of Professors are above average? (According to them)
- Drivers, Managers, Attorneys, etc ????
Dunning-Kreuger Applies to Organizations Too!

Applies to School Districts, Bus Companies, Regulators
Stop Arm Violations - 2018

a) 68,247  a) One Quarter
b) 32,122  b) One Month
c) 83,944  c) All of 2018
d) A Lot!!! d) None of the Above
83,944 violations **EVERY DAY !!!!!**

\[
\frac{83,944}{4 \text{ hours}} = \approx 21,000 \text{ Violations} / \text{ hour}
\]

\[
\frac{21,000}{240 \text{ minutes}} = 87 \text{ violations} / \text{ minute}
\]

**Changed:** Fewer numbers but the problem remains!
Stop Arms work....
More jurisdictions are going to stop arm cameras
What hasn't changed ---- Distraction

Courtesy – The Simpsons
What has changed
What hasn't changed ....
Great Idea !!!!!

Increase Implementation of Collision Avoidance Systems in All New Highway Vehicles
Technology – Lots of it !!!!

More and it's generally improving
Technology – Something new !!!

V2N Vehicle to Network

School Bus Ahead ..... ---- Stop Dummy !!!!
Recommendations – Just DO IT!!!!

• 3-point safety belts

Does your district require 3-point belts????
"A Deal"

Crash?

No – Whew !!!

Does anybody know?

Yes – Drat !!!

Confess – suffer consequences

No – Mum’s the word

Wrong Feedback Loop !!
Safety Management System - SMS

- "A Deal"
- Does anybody know?
- Doesn't matter
- Report it
- Analyze & Fix it

Non-punitive
Recommendations – Just DO it !!

• Train students to operate & practice on all exits
Recommendations – Just DO IT!!!!

- Fire Suppression Systems
What hasn't changed

Need for Initial & Recurrent Training
Takeaways – Same as last year !!!

- Beware Dunning – Krueger: We can ALL improve!!!
- Fatigue, Fitness (Meds & Physical) & Distraction
- Create a CULTURE of Excellence – SMS
- Technology – It’s coming but when & how ????
- NTSB Recommendations – 3 point belts, fire suppression, initial & recurrent training.
Looking Ahead !!!
Safety isn’t everything --- It’s the ONLY thing!
Safety isn’t everything --- It’s the ONLY thing