

# Event Data Recorders (EDRs) Bibliography and Research Resources

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**An Event Data Recorder (EDR) is an on-board SAFETY device or mechanism capable of monitoring, recording, displaying or transmitting pre-crash, crash, and post-crash data element parameters from a vehicle. The time duration is generally less than one minute. The objective is to use the data towards enhancing safety.**

## 2001

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Chidester, A.C.D; Hinch, J; Roston, T.A. June, 2001. Real World Experiences With Event Data Recorders. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 247, 11 pgs.

Chidester, A.C.D.; Isenberg, R. A. June, 2001. Final Report – The Pedestrian Crash Data Study. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 248, 12 pgs.

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Galganski, R.A.; Donnelly, B.R.; Blatt, A.; Lombardo, L.V. June, 2001. Crash Visualization Using Real-World Acceleration Data. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 357, 10 pgs.

Gabler, H.C.; DeFuria, J.; Schmalzel, J. L. June 2001. Automated Crash Notification Via the Wireless Web: System Design and Validation. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 71, 5 pages.

Garthe, E. A.; Mango, N. K. 2001. Conflicting Uses of Data From Private Vehicle Data Systems. Garthe Associates, Marblehead, Mass. 15 p. Intelligent Vehicle Initiative (IVI): Technology and Navigation Systems. Warrendale: SAE, 2001, pp. 79-93. Report No. SAE 2001-01-0804. UMTRI-94222 A10

German, A.; Comeau, J.L; Monk, B.; McClafferty, K.; Tiessen, P.F.; Chan, J. June, 2001. The Use of Event Data Recorders in the Analysis of Real-World Crashes, Proceedings of the Canadian Multidisciplinary Road Safety Conference XII; June 10-13, 2001; London, Ontario. 15 pgs.

Hendrie, D.; Lyle, G. June, 2001. Safety Benefits of Improvements in Vehicle Design Since the Introduction of the ANCAP Crash Test Program. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 259, 10 pgs.

Hill, J.; Thomas, P.; Smith, M.; Byard, N.; Rillie, I. June, 2001. The Methodology of On The Spot Accident Investigations in the UK. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 350, 10 pgs.

Hook, P. 2001. "Skunk in the Trunk?: Journey and Collision Data Recorders: Asset or Liability?" Traffic Technology International 2001. (2001).

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Kowalick, T. M. June, 2001. Real-World Perceptions of Emerging Event Data Recorder (EDR) Technologies. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 146, 8 pgs.

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Ueyama, M. June, 2001. Driver Characteristic Using Driving Monitoring Recorder. Proceedings of the 17<sup>th</sup> International Technical Conference on the Enhanced Safety of Vehicles (ESV) Conference, June 4-7, 2001 at Amsterdam, The Netherlands. National Highway Traffic Safety Administration, Washington, DC. DOT HS 809 220, June 2001. Paper Number 426, 10 pgs.

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Symposia Records of the National Transportation Safety Board (NTSB)  
Transportation Safety and the Law, April 25-26, Washington, DC.  
The NTSB held a symposium on issues related to improving transportation safety and the available information in the 21st century. The proceedings can be viewed in their entirety at:  
[http://www.nts.gov/events/2000/symp\\_legal/default.htm](http://www.nts.gov/events/2000/symp_legal/default.htm)

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Federal Register, 64 FR 29616 (June 2, 1999) available at [http://www.access.gpo.gov/su\\_docs/aces/aces140.html](http://www.access.gpo.gov/su_docs/aces/aces140.html)

National Transportation Safety Board (NTSB) International Symposium on Transportation Recorders. May 3-5, 1999, Washington, DC. Goal: To Share Knowledge and Experience Gained from the Use of Recorded Information to Improve Transportation Safety and Efficiency.

See the following papers: (16)

**1. Smiths Industries Flight Data/Cockpit Voice Recorders** [[.htm](#)] [[.pdf](#)]

Jeffrey L. Brooks

**2. An Autonomous Data Recorder for Field Testing** [[.htm](#)] [[.pdf](#)]

Joseph A. Carroll, Michael D. Fennell

**3. Reducing Highway Deaths and Disabilities with Automatic Wireless Transmission of Serious Injury Probability Ratings from Crash Recorders to Emergency Medical Services Providers** [[.htm](#)] [[.pdf](#)]

Howard Champion, J.S. Augenstein, B. Cushing, K.H. Digges, R. Hunt, R. Larkin, A.C. Malliaris, W.J. Sacco, J.H. Siegel

**4. Recording Automotive Crash Event Data** [[.htm](#)] [[.pdf](#)]

Augustus Chidester, John Hinch, Thomas C. Mercer, Keith S. Schultz

**5. Proactive Use of Recorded Data for Accident Prevention** [[.htm](#)] [[.pdf](#)]

Ed Dobranetski, Dave Case

**6. On-Board Recorders: The "Black Boxes" of the Trucking Industry** [[.htm](#)] [[.pdf](#)]

Les Dole

**7. Digital Audio Recorders Life Savers, Educators, and Vindicators** [[.htm](#)] [[.pdf](#)]

Matthew Durkin

**8. Transportation Event Recorder Data: Balancing Federal Public Policy and Privacy Rights** [[.htm](#)] [[.pdf](#)]

Gregory L. Evans

**9. Security of Recorded Information** [[.htm](#)] [[.pdf](#)]

Lindsay Fenwick

**10. Future Video Accident Recorder** [[.htm](#)] [[.pdf](#)]

Mike Horne

**11. Proactive Use of Highway Recorded Data Via an Event Data Recorder (EDR) to Achieve Nationwide Seat Belt Usage in the 90th Percentile by 2002** [[.htm](#)] [[.pdf](#)]

Thomas Michael Kowalick

**12. The Contribution of Onboard Recording Systems to Road Safety and Accident Analysis** [[.htm](#)] [[.pdf](#)]

Dr. Gerhard Lehmann, Tony Reynolds

**13. Transportation Recorders on Commercial Vehicles** [[.htm](#)] [[.pdf](#)]

Paul Menig and Cary Coverdill

**14. The Benefits of Vehicle-Mounted Video Recording Systems** [[.htm](#)] [[.pdf](#)]

R. Jeffrey Scaman

**15. On-Board Recording for Commercial Motor Vehicles and Drivers: Microscopic and Macroscopic Approaches** [[.htm](#)] [[.pdf](#)]

Neill L. Thomas, Deborah M. Freund

**16. A Vision of Future Crash Survivable Recording Systems** [[.htm](#)] [[.pdf](#)]

Michael H. Thompson

## Posters (4)

*Posters are available in HTML (default) or PPT format. Graphics have been included, whenever possible, in the HTML version, but PPT will have the higher-quality image, and requires a PowerPoint viewer.*

**1. Accident Reconstruction/Simulation with Event Recorders** [[.htm](#)] [[.ppt](#)]

Kristin Bolte, Lawrence Jackson, Vernon Roberts, Sarah McComb

**2. Seat Belt Event Data Recorder (SB-EDR)** [[.htm](#)] [[.ppt](#)]

Thomas Michael Kowalick

**3. Mobile Accident Camera** [[.htm](#)] [[.ppt](#)]

John J. Mackey, Christopher J. Brogan, Edward Bates, Stephen Ingalls, Jack Howlett

**4. The Benefits of Vehicle-Mounted Video Recording Systems** [[.htm](#)] [[.ppt](#)]

R. Jeffrey Scaman

The proceedings from the NTSB symposium can be viewed in their entirety at:

[http://www.nts.gov/events/symp\\_rec/symp\\_rec.htm](http://www.nts.gov/events/symp_rec/symp_rec.htm)

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