

**Leshner & Associates**  
Registered Professional Engineers  
47 N. Lockwood Rd.  
PO Box 949  
Elkton MD 21921

### **Publications**

<https://orcid.org/0000-0002-2065-0137>

**Combustion Intensity and Distribution Relation to Noise Generation, E.G. Plett, M.D. Leshner and M. Summerfield, American Institute of Aeronautics and Astronautics Paper No. 75-524, 1975.**

**Closed loop control for Adaptive Lean Limit Operation, Michael D. Leshner, James W. Stuart, Jr., and Ervin Leshner, Society of Automotive Engineers Paper No. 780039, 1978.**

**Brazilian Experience with Self-Adjusting Fuel System for Variable Alcohol-Gasoline Blends, M. D. Leshner, C.A. Luengo and F. Callandra, Society of Automotive Engineers Paper No. 800265, 1980.**

**Efficient Burning of Concentrated Gasohol of Variable Composition in Spark Ignition Engines, C.A. Luengo, F. Calandra and M.D. Leshner, Fourth International Symposium on Alcohol Fuels Technology, 1980.**

**Evaporative Engine Cooling for Fuel Economy, M.D. Leshner, Society of Automotive Engineers Paper No. 831261, 1983.**

**Reducing Lawnmower Exhaust Emissions in the U.S. Postal Service, M.D. Leshner, J.S. Studer and H.T. Dinh, Society of Automotive Engineers Paper No. 961734, 1996.**

**[Forensic Engineering Review: Causes of Sudden Unexpected Vehicle Acceleration](#)**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XIX No. 1 June 2002. <https://doi.org/10.51501/jotnafe.v19i1.599>

**[Forensic Engineering Analysis of Excessive Iron Corrosion in a Class of Automobile Engines](#)**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXV No. 2, December, 2008. <https://doi.org/10.51501/jotnafe.v25i2.696>

**[Forensic Engineering Investigation of Intentional Mis-Calibration of Vehicle Odometers](#)**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXVI No. 1 June 2009. <https://doi.org/10.51501/jotnafe.v26i1.707>

**The Forensic Engineer in Videotaped Depositions**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXVII No. 1 June 2010.  
<https://doi.org/10.51501/jotnafe.v27i1.726>

**Forensic Engineers in Patent Litigation**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXVIII No. 2 December 2010.  
<https://doi.org/10.51501/jotnafe.v27i2.734>

**Forensic Engineering Evaluation of CO2 Re-Breathing in Infant Bedding Materials**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXIX No. 2 December 2012. <https://doi.org/10.51501/jotnafe.v29i2.771>

**Forensic Investigation of Vehicle Fires in Structures**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXIX No. 2 December 2012.  
<https://doi.org/10.51501/jotnafe.v29i2.776>

**Forensic Engineering Evaluation of an Automated Warehouse Accident**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXXI No. 2 December 2014. <https://doi.org/10.51501/jotnafe.v31i2.1>

**Carbon dioxide rebreathing induced by crib bumpers and mesh liners using an infant manikin**, Matthew R. Maltese and Michael Leshner, BMJ Paediatrics Open, bmjpo-000374, April 2019. doi:10.1136/bmjpo-2018-000374

**Pinched Power Cord is Latent Defect Causing Fire When Appliance Is Not In Use**, Michael D. Leshner, Journal of the National Academy of Forensic Engineers Vol. XXXVIII No. 1 June 2021. <https://doi.org/10.51501/jotnafe.v38i1.132>

Thermal Rebreathing Model for Evaluation of Infant Bedding Materials, Michael D. Leshner, ASTM Journal of Testing and Evaluation, Volume 50, Issue 3, 25 February 2022. DOI: [10.1520/JTE20210736](https://doi.org/10.1520/JTE20210736)

Measuring Work of Breathing in an Infant Model: Comparison of Static and Dynamic Test Methods, M. D. Leshner, Journal of Testing and Evaluation 53, no. 1 (January/February 2025): 244–252. <https://doi.org/10.1520/JTE20240404>

Investigation of Suffocation Mechanisms in the Infant Sleep Environment Using a Mechanical Breathing Model Simulation, Barker R, Leshner M D (February 11, 2025) Cureus 17(2): e78852. DOI [10.7759/cureus.78852](https://doi.org/10.7759/cureus.78852)

Airflow, CO2 Inhalation, and Firmness Characteristics of Commercial Infant Products,  
Safeer F. Siddicky, Christopher Wilson, Michael D. Leshner, Brandi N. Whitaker, John L.  
Carroll, and Erin M. Mannen, Journal of Testing and Evaluation (August 2025)  
<https://doi.org/10.1520/JTE20250030>