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**Product Liability ♦ Vehicular Accident Reconstruction ♦ Premise Liability**  
Mechanical, Electrical, Civil, Chemical, Biomechanical, Metallurgical, Structural

# Newsletter

November 2007

This newsletter is brought to you by Florida Forensic Engineering, Inc. as a service to our valued clients and other professionals with whom we hope to establish a business relationship. Every month, we will bring you news, reviews, article summaries, company information, and recent developments in the field of forensic engineering!

### Recent Forensic and Safety Articles

Many times throughout the research process we run across articles that we identify as possible sources of information. We believe that some of these would broaden your knowledge of recent forensic engineering research and possibly provide you with information for one of your cases.

Shown below are **Titles of recent articles and their source** in the area of slip and fall-premise liability, motor vehicle accidents, product liability, and biomechanics.

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### Motor Vehicle:

#### **A Materials and Structure Perspective on the Feasibility of Automotive Frontal Protection Systems Meeting the Proposed Pedestrian Safety Test Criteria**

*Brooks R. Proc Inst Mech Eng Pt L J Mater Des Appl 2006; 220(2): 67-78.*

#### **Analysis of Driver and Pedestrian Comprehension of Requirements for Permissive Left-Turn Applications**

*Knodler J, Noyce DA, Kacir KC, Brehmer CL. Transp Res Rec 2006; 2006(1982): 65-75.*

#### **Crashworthiness of Motor Vehicle and Traffic Light Pole in Frontal Collisions**

*Elmarakbi A, Sennah K, Samaan M, Siriya P. J Transp Eng 2006; 132(9): 722-733.*

#### **Determination of the Crush Stiffness Coefficients of a Typical Aftermarket Frontal Protective Guard Used in Light Trucks and Vans With Comparisons Between Guard Stiffness and Frontal Vehicle Crush Coefficients**

*McCoy ML, Lankarani HM. Proc Inst Mech Eng Pt D: J Automobile Eng 2006; 220(8): 1073-1084.*



**Delta V as a predictor of significant injury for children involved in frontal motor vehicle crashes**

*Nance ML, Elliott MR, Arbogast KB, Winston FK, Durbin DR. Ann Surg 2006; 243(1): 121-5.*

**A Study on the Fatigue Life Prediction and Evaluation of the Natural Rubber Components for Automobile Vehicles**

*Woo CS, Kim WD, Kwon JD. Key Eng Mater 2006; 326-328 I: 589-592.*

**Biomechanics:**

**Head-turned rear impact causing dynamic cervical intervertebral foramen narrowing: implications for ganglion and nerve root injury**

*Tominaga Y, Maak TG, Ivancic PC, Panjabi MM, Cunningham BW. J Neurosurg Spine 2006; 4(5): 380-7.*

**Multiplanar cervical spine injury due to head-turned rear impact**

*Panjabi MM, Ivancic PC, Maak TG, Tominaga Y, Rubin W. Spine 2006; 31(4): 420-9.*

**Finite element analysis of head-neck kinematics during motor vehicle accidents: analysis in multiple planes**

*Teo EC, Zhang QH, Huang RC. Med Eng Phys 2007; 29(1): 54-60.*

**Investigation of an alleged mechanism of finger injury in an automobile crash**

*Stacey S, Kent R. Int J Legal Med 2006; 120(4): 246-51.*

**Biomechanics of osteoporotic fractures**

*Silva MJ. Injury 2007; 38(Suppl 3): S69-76.*

**General:**

**Trauma and motorcyclists; born to be wild, bound to be injured?**

*Hinds JD, Allen G, Morris CG. Injury 2007; ePub(ePub): ePub.*

**Driver Response to Rainfall on Urban Expressways**

*Unrau D, Andrey J. Transp Res Rec 2006; 2006(1980): 24-30.*

**Editorial: Intelligent Transportation Systems and Safety: Innovation and Directions**

*Misener JA. J Intell Transport Syst 2007; 11(3): 105-106.*

**Dirt Bikes and All Terrain Vehicles: The Real Threat to Pediatric Kidneys**

*Wu HY, Gaines BA. J Urol 2007; ePub: ePub.*

**Air bag-induced orbital blow-out fractures**

*Francis DO, Kaufman R, Yueh B, Mock C, Nathens AB. Laryngoscope 2006; 116(11): 1966-72.*

**Airbag-mediated pediatric atlanto-occipital dislocation**

*Saveika JA, Thorogood C. Am J Phys Med Rehabil 2006; 85(12): 1007-10.*

Please do not hesitate to call with your technical engineering issues which may require analysis.

We thank you for your continued support,

**Florida Forensic Engineering, Inc.**

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