

NEWSLETTER

December 2006



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

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!

Many of you have asked us to describe the nature of our business. Starting in January 2007 we intend to send out an additional e-mail each month which will describe some of our capabilities.

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.

If you desire an abstract for any of these, please contact us.

BIOMECHANICS:

▶ Hand injury costs

Dias JJ, Garcia-Elias M. Injury 2006; ePub: ePub.

▶ Cardiac contusion following blunt chest trauma

Holanda MS, Domínguez MJ, López-Espadas F, López M, Díaz-Regañón J, Rodríguez-Borregán JC. Eur J Emerg Med 2006; 13(6): 373-376.

▶ A finite element model of the lower limb for simulating pedestrian impacts

Crandall J, Deng B, Wang JT. Stapp Car Crash J 2005; 49: 157-81.

▶ A Study of Knee Joint Kinematics and Mechanics using a Human FE Model

Kitagawa Y, Iwamoto M, Miki K. Stapp Car Crash J 2005; 49: 117-31.

► **Analysis of finite element models for head injury investigation: reconstruction of four real-world impacts**

Franklyn M, Fildes B, Zhang L, Yang K, Sparke L. Stapp Car Crash J 2005; 49: 1-32.

► **Ankle skeletal injury predictions using anisotropic inelastic constitutive model of cortical bone taking into account damage evolution**

Iwamoto M, Miki K, Tanaka E. Stapp Car Crash J 2005; 49: 133-56.

► **Biomechanical Analysis of Human Abdominal Impact Responses and Injuries through Finite Element Simulations of a Full Human Body Model**

Ruan JS, Barbat S, Prasad P. Stapp Car Crash J 2005; 49: 343-66.

► **Spinal cord injuries**

Goldsmith HS. J Am Coll Surg 2006; 203(5): 782-3.

► **In search of head injury criteria**

McElhaney JH. Stapp Car Crash J 2005; 49: v-xvi.

MOTOR VEHICLE ACCIDENTS:

► **Blood and oil: vehicle characteristics in relation to fatality risk and fuel economy**

Robertson LS. Am J Public Health 2006; 96(11): 1906-9.

► **The prevalence of, and factors associated with, serious crashes involving a distracting activity**

McEvoy SP, Stevenson MR, Woodward M. Accid Anal Prev 2006; ePub: ePub.

► **Screening tools for considering grade separation at rail-highway crossings**

Gitelman V, Hakkert AS, Doveh E, Cohen A. J Transp Eng 2006; 132(1): 52-59.

► **3D calculation of stopping-sight distance from GPS data**

Nehate G, Rys M. J Transp Eng 2006; 132(9): 691-698.

► **Evaluating the safety risk of narrow medians using reliability analysis**

Richl L, Sayed T. J Transp Eng 2006; 132(5): 366-375.

► **Predicting speeds in an urban right-turn lane**

Fitzpatrick K, Schneider WH, Park ES. J Transp Eng 2006; 132(3): 199-204.

► **Transverse pavement grooving against hydroplaning. i: simulation model**

Ong GP, Fwa TF. J Transp Eng 2006; 132(6): 441-448.

► **An experimental study on pedestrian classification**

Munder S, Gavrilu DM. IEEE Trans Pattern Anal Mach Intell 2006; 28(11): 1863-8.

► **Practical aspects of crash data retrieval using the Vetronix system**

Hall GJ. Collision 2006; 1(1): 69-81.

► **The accuracy of speed recorded by an [EDR] SDM and the effects of brake, yaw and other factors**

Reust TJ, Morgan JM. Collision 2006; 1(1): 9-15.

► **Interventions for increasing pedestrian and cyclist visibility for the prevention of death and injuries**

Kwan I, Mapstone J. Cochrane Database Syst Rev 2006; (4): CD003438.

► **Test road experiment on imminent warning rear lighting and signaling**

Wierwille WW, Lee SE, Dehart MC, Perel M. Hum Factors 2006; 48(3): 615-26.

► **An Analysis of In-flight Passenger Injuries and Medical Conditions: 1 January 1975 to 31 March 2006**

Newman DG. Australian Transport Safety Bureau. Canberra City, Australian Capital Territory: Australian

► **Crashworthiness of motor vehicles and traffic light poles in frontal collisions**

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

► **Modeling crash types: New insights into the effects of covariates on crashes at rural intersections**

Kim DG, Washington S, Oh J. J Transp Eng 2006; 132(4): 282-292.

► **Motor vehicle event data recorders: Validation and use of data for admission to the court**

Barbera GJ, Jacobson OH, Bastiaan C, Christopher TA, Anderson DJ. Collision 2006; 1(1): 43-51.

► **Motorcycle collinear collisions involving motor vehicles equipped with event data recorders**

Beck RF, Casteel DA, Phillips E, Eubanks J, English D. Collision 2006; 1(1): 82-96.

► **Neck injury tolerance under inertial loads in side impacts**

McIntosh AS, Kallieris D, Frechede B. Accid Anal Prev 2006; ePub: ePub.

► **Rational legislative and organizational policy for automotive event data recorders**

Messerschmidt W. Collision 2006; 1(1): 56-67.

► **Safety analysis of Florida rural interstate freeway travel in relation to the 65 km/h (40 mi/hr) minimum speed regulation**

Mussa R, Muchuruza V. J Transp Eng 2006; 132(9): 699-707.

► **Bicycle helmets and brain injury**

Curnow WJ. Accid Anal Prev 2006; ePub(ePub): ePub.

► **Estimating countermeasure effects for reducing collisions at highway-railway grade crossings**

Saccomanno FF, Park PY, Fu L. Accid Anal Prev 2006; ePub(ePub): ePub.

► **Motorcycle crash investigation: Performance testing and review of previous studies**

Lewis G. Collision 2006; 1(2): 32-43.

► **PDOF: principle direction of force.**

Russell CG. Collision 2006; 1(2): 12-18.

► **Motion Analysis of the Mandible during Low-Speed, Rear-End Impacts using High-Speed X-rays**

Yang KH, Begeman P, Deng B, Levine R, King AI. Stapp Car Crash J 2005; 49: 67-84.

► **Neural response of cervical facet joint capsule to stretch: a study of whiplash pain mechanism**

Lu Y. Stapp Car Crash J 2005; 49: 49-65.

► **Numerical Investigations of Interactions between the Knee-Thigh-Hip Complex with Vehicle Interior Structures**

Kim YS, Park YJ, Lee JB, Yang KH, King AI. Stapp Car Crash J 2005; 49: 85-115.

► **Shoulder injury and response due to lateral glenohumeral joint impact: an analysis of combined data**

Rouhana SW, Bolte JH. Stapp Car Crash J 2005; 49: 291-322.

► **The RID2 biofidelic rear impact dummy: A pilot study using human subjects in low speed rear impact full scale crash tests**

Croft AC. Accid Anal Prev 2006; ePub(ePub): ePub.

► **Thoracic Injury Investigation using PMHS in Frontal Airbag Out-of-Position Situations**

Petit P. Stapp Car Crash J 2005; 49: 323-42.

FIRE:

► **Thin-layer boilover in diesel-oil fires: Determining the increase of thermal hazards and safety distances**

Ferrero F, Muñoz M, Arnaldos J. J Hazard Mater 2006; ePub(ePub): ePub.

► **Quality of Life After Burn Injury: The Impact of Joint Contracture**

Leblebici B, Adam M, Bagis S, Tarim AM, Noyan T, Akman MN, *Haberal MA. J Burn Care Res 2006; 27(6): 864-868.*

SLIP AND FALL-PREMISE LIABILITY:

► **Falls from height: spine, spine, spine!**

Velmahos GC, Spaniolas K, Alam HB, de Moya M, Gervasini A, Petrovick L, Conn AK. J Am Coll Surg 2006; 203(5): 605-11.

► **Predictors of Falling in Older Maryland Drivers: A Structural-Equation Model**

Vance DE, Ball KK, Roenker DL, Wadley VG, Edwards JD, Cissell GM. J Aging Phys Act 2006; 14(3): 254-269.

GENERAL:

► **Penetrating ocular injuries in the home**

Bhogal G, Tomlins PJ, Murray PI. J Public Health 2006; ePub(ePub): ePub.

► **Accident proneness, does it exist? A review and meta-analysis**

Neeleman J. Accid Anal Prev 2006; ePub(ePub): ePub.

► **Brief Report: Hazardous Materials Release Resulting from Home Production of Biodiesel --- Colorado, May 2006**

Centers for Disease Control and Prevention. MMWR Morb Mortal Wkly Rep 2006; 55(45): 1227-1228.

► **Foot and ankle injuries in dance**

Kadel NJ. Phys Med Rehabil Clin N Am 2006; 17(4): 813-26.

If you have a technical issue that requires engineering analysis, please do not hesitate to call.
We thank you for your continued support,

Everyone at Florida Forensic Engineering, Inc.

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