

**In Press (Publications)**

Bose D, Crandall J, Griffin R, McGwin G, Foster J, Goldman J, Fine R, O'Connor R. Predicted Effect of an Automatic Injury Notification System on Reducing Traffic Fatalities. Italian J Pub Health 2010. In Press.

Sisiopiku VP, Cavusoglu O, Sikder S. High occupancy vehicle lane performance assessment through operational, environmental impacts and cost-benefit analyses. EAIA 2010. In Press.

**Publications (CS):**

Aekbote K, Zhao L, Maltarich M, Cheng J, Chou CC, Yang KH. A door sub-system sled test methodology for simulation of occupant responses in FMVSS 214 side impact oblique pole test. Int J Vehicle Safety 2009; 4:230–256.

Aekbote K, Chou CC, Cheng J, Yang KH, Cavanaugh JM, Rouhana SW, Belwafa J. Development of transfer functions between ES-2re and SID-IIs dummies using rigid wall sled tests. INFATS 2009; Paper # AAI3369657:7:303-310.

Aekbote1, K.; Cheng, J.; Zhao, L.; Chou, C.C.; Yang, K.H. and Maltarich, M. Development of sub-system sled test methodologies for evaluation of side impact countermeasures. INFATS 2009; 7:314-323.

Chen HB, Yang KH, Wang ZG. Biomechanics of whiplash injury. Chin J Traumatol 2009; 12:305-314.

Chou CC, Wagner C, Yang KH, King AI. A review of tripped rollover test methodologies. Int J Vehicle Safety 2009; 4:185–229.

Guan F, Belwadi A, Han X, Yang KH. Application of optimization methodology on vehicular crash reconstruction. ASME IMECE 2009.

Hu J, Chou C, Yang K, King A. Occupant injury mechanism in rollover crashes - diving or roof crush. SAE 2010 World Congress and Expo. 2010.

Hyatt E, Griffin R, Rue LW 3rd, McGwin G Jr. The association between price of regular-grade gasoline and injury and mortality rates among occupants involved in motorcycle- and automobile-related motor vehicle collisions. Accid Anal Prev 2009; 41:1075-9.

- Kimpara H, Lee JB, Yang KH, King AI. Effects of body weight, height, and ribcage area moment of inertia on blunt chest impact response. *J Traffic Inj Prev* 2010; 11:207-214.
- McGwin G, Nunn AM, Mann JC, Griffin R, Davis GG, MacLennan PA, Kerby JD, Acker JE, Rue LW. Reassessment of the tri-modal mortality distribution in the presence of a regional trauma system. *J Trauma* 2009; 18: 184-186.
- Schwebel DC, McClure LA. Using virtual reality to train children in safe street-crossing skills. *Inj Prev* **16**:e1-e5.
- Schwebel DC, Pitts D, Stavrinou D. The Influence of carrying a backpack on college student pedestrian safety. *Accid Anal Prev* 2009; 41: 352-356.
- Schwebel DC, Stavrinou D, Kongable EK. Attentional control, high intensity pleasure, and risky pedestrian behavior in college students. *Accid Anal Prev*. 2009; 41: 658-661.
- Segui-Gomez M, Lopez-Valdes F J, Crandall J. Characterizing the distribution of injury and injury severity for belted front-seat occupants involved in frontal crashes. Annual Intl Res Council on the Biomechan Inj Conf, York, UK. 2009; 155.
- Sisiopiku VP, Germin F. Analysis of impacts from temporary left- and right-shoulder lane use as an active traffic management strategy. Huntsville Simulation Conference 2009.
- Sisiopiku VP, Acharya A, Anderson M, Turner D. Evaluation of traffic signal performance under oversaturated conditions using VISTA. *Trans Simulation Symp* 2009; 165.
- Sisiopiku VP, Cavusoglu O, Fadel G. Active traffic management opportunities and challenges for implementation. 2009 ITE Technical Conference and Exhibit Compendium of Technical Papers, Phoenix, AZ.
- Sisiopiku VP, Chemmannur J, Brown J. Conversion of one- to two-way streets in birmingham downtown: A feasibility study. *SimAUD* 2010.
- Stavrinou D, Byington KW, Schwebel DC. The effect of cellphone distraction on pediatric pedestrian injury risk. *Pediatrics* 2009; 123: e179-185.
- Trowbridge MJ, Gurka MJ, O'Connor R. Urban sprawl and delayed ambulance arrival in the United States. *Amer J Prev Med* 2009; 37:428-32.
- Trowbridge MJ, Kent R. Rear seat motor vehicle travel: Using national data to define a population at-risk. *Amer J Prev Med* 2009; 37:321-323.

Turner D, Wolshon B, Dixit V, Evans W, Sisiopiku VP, Islam S, Anderson M, Teklewold M. Transportation-oriented communications with vulnerable populations during major emergencies: Current challenges and best practices. J Transportation Res Board. 2010.

Wood JM, McGwin G, Elgin J, Vaphiades MS, Braswell RA, Decarlo D, Kline LB, Meek C, Searcey K, Owsley C. On-road driving performance by persons with hemianopia and quadrantanopia. Invest Ophthalmol Vis Sci. 2009; 50: 577-85.

Zhang L, Franklyn M, Yang KH. Head injury prediction: Accident reconstruction of real-world crash cases. WACBE World Congress on Bioengineering 2009; 330.

### **Presentations (CS)**

Bose D, Crandall J, Trowbridge M, McGwin G, Foster J, Goldman J, Fine R, O'Connor R. Multibody modeling method for predicting occupant injury risk: a framework for automatic injury notification system. Presented for a joint symposium titled "What is the best way to implement an Accident Crash Notification System (ACNS) in Japan?" organized by the JAST (Japanese Association for the surgery of Trauma), JSAE (Japan Society of Automotive Engineers), JARI (Japan Automobile Research Institute), ITARDA (Institute for Traffic Accident Research and Data Analysis), and GIAJ (General Insurance of Association of Japan), May 2010.

Cavusoglu O. Transit practices for evacuation preparedness and response for vulnerable populations. Presented at UAB ICRC and UAB UTC Research in Progress Seminar, Birmingham, AL. February 2010.

Cummings G. Center for the study of rural vehicular trauma. Presented at the 2010 UAB UTC Annual Advisory Board Meeting, Birmingham, AL. May 2010.

Garner A. Parental influences on driving behavior. Presented at the UAB University Transportation Center, Birmingham, AL. February 2010.

Garner AG, Stavrinou D. Influence of parental distracted driving on teens with and without ADHD. Poster presented at the 2010 Simpson Ramsey

Symposium, Civitan International Research Center, Birmingham, AL. First Place Prize. April 2010.

Guan F, Belwadi A, Han X, Yang KH. Application of optimization methodology on vehicular crash reconstruction. Presented at the ASME 2009 International Mechanical Engineering Congress & Exposition, IMECE2009, Lake Buena Vista, Florida. November 2009.

JoTurner D, Wolshon B, Dixit V, Evans W, Sisiopiku VP, Islam S, Anderson M, Teklewold M. Transportation-oriented communications with vulnerable populations during major emergencies: Current challenges and best practices. Presented at the Journal of the Transportation Research Board, Transportation Research Record (TRR). January 2010.

King R, O'Neal EE, Schwebel DC. Safety of using hands-free headsets while driving. Poster submitted for presentation at the annual meeting of the American Psychological Association, San Diego, CA. August 2010.

Luck JF, Nightingale RW, Bass CD, Song Y, Kait J, Myers BS. Pediatric PMHS neck Biomechanics. Presented at the National Highway Traffic Safety Administration Yearly Briefing. September 2009.

Mizzell J, Byington KW, Renfroe M, O'Neal E, Schwebel DC. Text-messaging and driving: Epidemiological data and implications for prevention. Poster accepted for presentation at the annual meeting of the Society for Behavioral Medicine, Seattle, WA. April 2010.

O'Neal E, Schwebel DC, Davis T. College-aged drivers: Internet technology on phones may pose new driving risks. Poster accepted for presentation at the annual meeting of the Southeastern Psychological Association, Chattanooga, TN. March 2010.

Renfroe M, Stavrinou D, Mizzell J, de Jong D, Schwebel DC. Pedestrian safety while listening to music. Poster accepted for presentation at the annual meeting of the Society for Behavioral Medicine, Seattle, WA. April 2010.

Schwebel D. Teaching young children pedestrian safety skills in virtual reality. Presented at the 2010 UAB UTC Annual Advisory Board Meeting, Birmingham, AL. May 2010.

Siegel JH, Belwadi A, Smith JA, Shah C, Yang KH. Analysis of the mechanism of lateral impact aortic isthmus disruption in real-life motor vehicle crashes using a computer-based finite element numeric model with simulation of prevention strategies. Presented at the Eastern Association for the Surgery of Trauma (EAST), 23<sup>rd</sup> Annual Scientific Assembly in Collaboration with the Society of Trauma Nurses (STN), Phoenix, AZ. January 2010.

Sisiopiku V. Contra flow operations for hurricane evacuation: Lessons learned from an Alabama case study. National Evacuation Conference, New Orleans, LA. 2010.

Sisiopiku V. A holistic approach to incident management. Presented at the INFORMS 2010 Southern Regional Conference, Huntsville, AL. 2010.

Sisiopiku V. Emergency response and traffic congestion: Dispatchers' perspectives. Presented at the National Evacuation Conference, New Orleans, LA. 2010.

Sisiopiku V. Development of a dynamic traffic assignment and simulation model for incident and emergency management applications in the Birmingham region. Presented at the 2010 UAB UTC Annual Advisory Board Meeting, Birmingham, AL. May 2010.

Sisiopiku V. Analysis of impacts from temporary left- and right- shoulder lane use as an active traffic management strategy. Presented at the Huntsville Simulation Conference, Huntsville, AL. 2009.

Sisiopiku V. Active traffic management opportunities and challenges for implementation. Presented at the 2009 ITE Technical Conference and Exhibit, Phoenix, AZ. 2009.

Stavrinos D. Distracted driving in teens. Presented at the 2010 UAB UTC Annual Advisory Board Meeting, Birmingham, AL. May 2010.

Stavrinos D. Individual differences in perception of distracted driving ability in teenage drivers. Poster presented at the 26<sup>th</sup> Annual UAB Department of Medicine Trainee Symposium, Birmingham, AL. March 2010.

Stavrinos D. Definitions, data and research results. Panel moderator at the Alabama Distracted Driving Summit, Birmingham, AL. December 2009.

Stavrinos D. Definitions, data and research results. Panel moderator at the Alabama Distracted Driving Summit, Birmingham, AL. December 2009.

Trowbridge MJ. Building healthier streets for healthier neighborhoods (expert panelist, emergency response planning & built environment). Presented at the Congress for New Urbanism Annual Conference. Atlanta, GA. May 2010.

Trowbridge MJ, Gurka MJ, O'Connor RO. Emergency response and the built environment: does urban sprawl delay ambulance arrival? Presented at the

American Public Health Association (APHA) Annual Meeting, Philadelphia, PA. November 2009.

Turner D, Wolshon B, Dixit V, Evans W, Sisiopiku VP, Islam S, Anderson M. Transportation-oriented communications with vulnerable populations during major emergencies: Current challenges and best practices. Proceedings of the 89<sup>th</sup> Transportation Research Board Annual Meeting, Washington, D.C. 2010.

Welburn SC, Garner AG, Schwartz M, Stavrinos D. Developing a self-report measure of distracted driving in young adults. Poster presented at the 2010 UAB Expo, Birmingham, AL. April 2010.