

## **KRISTOPHER J SELUGA –TECHNOLOGY ASSOCIATES**

Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety Expert

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**QUALIFICATIONS:** Licensed Professional Engineer (Connecticut and New York)  
Investigated hundreds of motor vehicle, machinery, product liability and fall accidents  
Professional Memberships:  
- American Society of Mechanical Engineers (ASME)  
- Society of Automotive Engineers (SAE)  
- Human Factors and Ergonomics Society (HFES)  
- Institute of Transportation Engineers (ITE)  
- National Association of Professional Accident Reconstruction Specialists (NAPARS)  
ACTAR Accredited as a Traffic Accident Reconstructionist (#1697, 2005-2010)  
OSHA 10-hour Construction Safety and Health Certification  
Dynamic testing and analysis experience (e.g. ANSI, ASTM, UL, vehicle testing)  
Experienced software user (animation and biomechanical, structural and dynamic analysis)  
- Developed vehicle dynamic simulation programs for accident reconstruction applications  
Member ANSI/NGCMA Z130.1 engineering specifications committee (2012 revision)

**EDUCATION:** M.S. .... M.I.T. .... 2001  
BSME ..... M.I.T. .... 2000

**EXPERIENCE:** 2001-Present ..... Forensic Engineer, Technology Associates  
1999-2001 ..... Research Assistant, Massachusetts Institute of Technology  
1999 ..... Combustion System Development Team, Ford/Visteon  
1998 ..... Process Engineer, Photocircuits Corp.  
1997 ..... Product Development Team, Pall Corp.

**PUBLICATIONS:** Seluga, K. and Hartzsch, J., "Golf Car and Personal Transport Vehicle Brake-Induced Directional Instability-Testing and Simulation Validation," SAE Technical Paper 2020-01-5102, 2020.  
Seluga, K., Baker, L., & Ojalvo, I., "A Parametric Study of Golf Car and Personal Transport Vehicle Braking Stability," J Accident Analysis & Prevention 2009; 41:4:839-848.  
Seluga, K., Long, T., "Analysis and Prevention of Child Ejections from Golf Cars and Personal Transport Vehicles", 21st International Technical Conference on the Enhanced Safety of Vehicles (ESV), Paper #09-0186, June 2009.  
Seluga, K., Baker, L., & Ojalvo, I., "Stepladders: Why They're Not Safe," ASME International Mechanical Engineering Congress and Exposition, IMECE2008-67399, October 31 – November 6, 2008, Boston, Massachusetts, USA.  
Seluga, K., Ojalvo, I. & Obert, R., "Analysis and Testing of a Hidden Stepladder Hazard - Excessive Twist Flexibility," International Journal of Injury Control and Safety Promotion, 14:4, 215 – 224, 2007.  
Seluga, K., & Ojalvo, I., "Braking Hazards of Golf Cars and Low Speed Vehicles," J Accident Analysis & Prevention 2006; 38:6:1151-1156.  
Ojalvo, I., & Seluga, K., "Determining Impact Speed and Occupant Injury Propensity in Low-Speed Rear End Collisions," J Whiplash & Related Disorders 2006; 5:1:29.  
Seluga, K., Ojalvo, I. & Obert, R., "Low Speed Vehicle Passenger Ejection Restraint Effectiveness," J Accident Analysis & Prevention 2005; 37:4:801-806.  
Seluga, K., Obert, R. & Ojalvo, I., "Articulated Vehicle Yaw Stability during Braking – A Parametric Study," Society of Automotive Engineers (SAE), #2004-01-2630, 2004 Transactions Journal of Commercial Vehicles ISBN 0-7680-1551-2, p 248-255.  
Ojalvo, I. & Seluga, K., "Optimizing Your Use of Motor Vehicle Accident Experts," New Jersey Lawyer Magazine, August 2004, No. 229, pp. 36-39, 63.  
Obert, R., Ojalvo, I. & Seluga, K., "A Hidden Stepladder Hazard: Excessive Twist Flexibility," Human Factors & Ergonomics Society, 47<sup>th</sup> Annual Meeting, 2003.  
Seluga, K., 3-Dimensional Printing by Vector Printing of Fine Metal Powders, M.S. Thesis, MIT 2001.  
Seluga, K., Layer to Layer Registration of a Slurry-Based 3D Printing Machine, B.S. Thesis, MIT 2000.

**AWARDS:** MIT Martin Fellow, 2001  
Tau Beta Pi Engineering Honor Society, 2000  
Pi Tau Sigma Mechanical Engineering Honor Society, 1999