KRISTOPHER J SELUGA –TECHNOLOGY ASSOCIATES
Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety Expert
Phone: (203) 329-9909 www.technology-assoc.com kseluga@technology-assoc.com

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, 47th 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