IRVING U. OJALVO - TECHNOLOGY ASSOCIATES
Structures, Biomechanics and Safety Expert, Retired Senior Scientist, Columbia University

Phone: (800) 358-9909 FAX: (888) 358-9901
http://www.technology-assoc.com

QUALIFICATIONS: Licensed Professional Engineer, New York, Connecticut and Florida.

Bullard Professor of Mechanical Engineering, University of Bridgeport (1983-1990).

Author of over 90 technical papers for leading national and international engineering journals.

Court testimony as an expert witness in numerous cases involving biomechanics industrial and automobile accidents and consumer products liability.

Society of Automotive Engineers (SAE) Speakers Bureau on Products Liability and Roadway and Accident Reconstruction.

Developed state-of-the-art structural dynamics computer program under contract with U. S. Government. Space shuttle consultant & lecturer to NASA engineers.

Safety Committee, Human Factors & Ergonomics Society

Safety Council, Institute of Transportation Engineers

Consultant to industry in areas of Industrial and Roadway Safety and Human Factors Engineering

Design of Warnings used in automated industrial equipment

Associate Editor of the American Institute of Aeronautics & Astronautics Journal.

Member of ANSI (American National Standards Institute) Ladder Safety Committee

EDUCATION:

B.M.E.	.....	C.C.N.Y.	 1956
M.S.	.....	M.I.T.	 1957
Sc.D.	.....	N.Y.U.	 1962

EXPERIENCE:

1961-1966 .....Structural Engineering Specialist, Republic Aviation
1966-1968 .....Engineering Consultant, Harry Belock Associates
1968-1983 .....Manager & Project Engineer at Grumman & Perkin-Elmer Corp.
1966-Present ...Private Consultant to numerous industries & law firms

AWARDS:

M.I.T. Assistantship, 1956-1957.
U.S. Fulbright Scholar in the Netherlands, 1960-1961.
N.Y.U. Founders Day Award, 1962.
NASA Certificate of Recognition, 1973
Hofstra University Certificate of Appreciation, 1979 & 1980.
Bullard Chair of Engineering, 1983-1990.
Elected a Life Fellow of the American Society of Mechanical Engineering, 1986.
Listed in Who's Who and American Men and Women of Science.

KRISTOPHER J. SELUGA – TECHNOLOGY ASSOCIATES
Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety Expert
1011 High Ridge Road, 2nd Floor Phone: (203) 329-9909 FAX: (203) 329-9901
Stamford, CT 06905 http://www.technology-assoc.com

QUALIFICATIONS:
Licensed Professional Engineer (Connecticut)
ACTAR Accredited as a Traffic Accident Reconstructionist (#1697)
Investigated hundreds of motor vehicle, machinery, product liability and fall accidents
Member - American Society of Mechanical Engineering (ASME)
Member - Society of Automotive Engineers (SAE)
Member - Human Factors and Ergonomics Society (HFES)
Member - Institute of Transportation Engineers (ITE)
Member - National Association of Professional Accident Reconstruction Specialists (NAPARS)
Dynamic testing and analysis experience
Skilled user of biomechanical simulation software
Developed vehicle dynamic simulation programs for accident reconstruction applications
Experienced user of state of the art animation/simulation and structural analysis software

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., 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., Three 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

LOWELL L. BAKER – TECHNOLOGY ASSOCIATES
Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety

Phone: (800) 358-9909 Fax: (888) 358-9901
http://www.technology-assoc.com Lbaker@technology-assoc.com

EDUCATION:

2007	Ph.D.	Mechanical Engineering	MIT
2004	M.S.	Mechanical Engineering	MIT
2002	B.S.	Mechanical Engineering	MIT

EXPERIENCE:

2007-Present	Forensic Engineer, Technology Associates Stamford, CT
2002-2007	Research Assistant and Teaching Assistant, MIT Cambridge, MA
2004 (summer)	Research Engineer, Sandia National Laboratories Albuquerque, NM
2001 (summer)	Fiber Optics Research and Development, Finisar Sunnyvale, CA
2000 (summer)	HVAC Engineering, Case-New Holland Burr Ridge, IL

SELECTED PUBLICATIONS:

K. Seluga, L. Baker and I. Ojalvo, "A Parametric Study of Golf Car and Personal Transport Vehicle Braking Stability," *Journal of Accident Analysis & Prevention* 2009; 41:4:839-848.

K. Seluga, L. Baker and I. Ojalvo, "Stepladders – Why they're not safe," Proceedings of ASME International Mechanical Engineering Congress and Exposition, IMECE2008-67399, 2008

L. L. Baker and N. G. Hadjiconstantinou, "Variance reduced Monte Carlo solutions of the Boltzmann equation for low-speed gas flows: A Discontinuous Galerkin formulation." *International Journal for Numerical Methods in Fluids*, Vol. 58, Issue 4, 2008

L. L. Baker, *Efficient numerical methods for solving the Boltzmann equation for small scale flows*. Doctoral thesis, MIT, June 2007

L. L. Baker and N. G. Hadjiconstantinou, "A variance reduction approach for Monte Carlo solutions of the non-linear Boltzmann equation." In *Proceedings of the Third International Conference on Microchannels and Minichannels*. ASME, 2005

L. L. Baker and N. G. Hadjiconstantinou, "Implicit hybrid simulation framework for steady-state dilute gas flows." *International Journal for Multiscale Computational Engineering*, 3:49-58, 2005

L. L. Baker and N. G. Hadjiconstantinou, "Variance reduction for Monte Carlo solutions of the Boltzmann equation." *Physics of Fluids*, 17 (051703), 2005

AWARDS AND ORGANIZATIONS:

American Society of Mechanical Engineers (ASME), since 2007
MIT Presidential Fellow, 2002
Tau Beta Pi Engineering Honor Society, 2002
Pi Tau Sigma Mechanical Engineering Honor Society, 2001

ROBERT N. COPPOLINO - CALIFORNIA TECHNOLOGY ASSOCIATES
Mechanical Engineering, Accident Reconstruction & Failure Analysis

17410 Mayerling St. Phone: (800) 358-9909 FAX: (888) 358-9901
Granada Hills, CA 91344 http://www.technology-assoc.com

QUALIFICATIONS: Motor vehicle accident reconstruction experience

Co-Author, Shock & Vibration Handbook

Authored numerous technical articles in leading engineering journals

Guest director Ford ride-quality improvement

Guest director at Boeing vibration testing

U.S. government independent vehicle safety review boards

Offshore oil and gas platform structural damage detection for USGS

Graduate level engineering course instructor at USC & Ford Motor Co

Evaluated supercharged Thunderbird drive train failure limits

Consultant on electronic package survivability

Member of ASME and Human Factors and Ergonomics Society (HFES)

EDUCATION:

B.S. Aerospace Eng.	….....	Polytechnic Institute of Brooklyn	1966
M.S. Applied Mechanics	….....	Polytechnic Institute of Brooklyn	1967
Ph.D. Applied Mechanics	….....	Polytechnic Institute of Brooklyn	1973

EXPERIENCE:

1967-1975 .....Senior Dynamics Engineer, Grumman Aerospace Corporation
1975-1983 .....Section Manager, The Aerospace Corporation
1983-1987 .....Branch Manager, The MacNeal-Schwendler Corporation
1987-present ...Chief Scientist, Measurement Analysis Corporation

AWARDS:

1979 Outstanding Accomplishment @ Aerospace Corp, El Segundo, CA
NASA Outstanding Achievement, Space Shuttle flight certification review team

OREN MASORY - TECHNOLOGY ASSOCIATES

Professor of Mechanical Engineering, Florida Atlantic University

Phone: (800) 358-9909 FAX: (888) 358-9901
http://www.technology-assoc.com

QUALIFICATIONS: Director, Robotics Center at Florida Atlantic University

Author of over 70 engineering journal and conference articles

Design assistance for the ergonomic PosChair

Consultant to Pratt & Whitney Corporation -- development of a vision based inspection of holes drilled by abrasive water jets

Consultant regarding robotic manipulators for Sensormatic

Consultant to Motorola -- Failure analysis of pagers using drop tests

Principal Investigator for numerous sponsored research projects since 1985

Safety Committee, Human Factors & Ergonomics Society

EDUCATION:

B.S. ..... Technion, Israel Institute of Technology 1974

M.Sc. ..... Technion, Israel Institute of Technology 1977

Ph.D. ..... Technion, Israel Institute of Technology 1980

EXPERIENCE:

1980-1983: Research Engineer, Gould Inc. (IL)

1983-1988: Assistant Professor, Texas A & M University

1989-Present: Professor of Engineering, Florida Atlantic University

AWARDS:

Exxon Faculty Award, Texas A & M University, 1984-1986

Gutwirth Scholarship, Technion - Israel Institute of Technology, 1980

LAWRENCE V. HMURCIK - TECHNOLOGY ASSOCIATES
Professor of Electrical Engineering, University of Bridgeport

Phone: (800) 358-9909 FAX: (888) 358-9901
http://www.technology-assoc.com

QUALIFICATIONS: Licensed Professional Engineer, Connecticut

Tenured Associate Professor of Electrical Engineering, University of Bridgeport (1983-Present)

Author of over 45 technical papers for leading national and international engineering journals

Court testimony as an expert witness in numerous cases involving electrical phenomena associated with circuits, radiation (radar and microwaves), accidents and consumer products liability.

Institute of Electrical and Electronics Engineers (IEEE), member

American Physical Society (APS), member

Taught courses in Power Electronics, Electron Devices, etc.

Consultant to industry in areas of Electrical Engineering, with specialties in Fiber Optics and Signal Processing

Reviewer for the Journal of Applied Physics and IEEE Transactions

EDUCATION:

B.S.	.....	Fairfield University	 1974
M.S.	.....	Clarkson University	 1976
Ph.D.	.....	Clarkson University	 1980

EXPERIENCE:

1980-1983 …..… Research Physicist, Diamond Shamrock Corporation
1983-Present …… Associate Professor, University of Bridgeport
1986-Present …… Over 100 Consulting Assignments in New York and Connecticut

AWARDS:

Yankee Ingenuity Initiative Grant, 1986-1988
State of Connecticut High Technology Grant, 1989-1991
National Science Foundation Grant, 1995
Yankee Ingenuity Initiative Grant, 1994-1996

DR. JOHN S. HORVATH – TECHNOLOGY ASSOCIATES
Soils Expert

Phone: (800) 358-9909 Fax: (888) 358-9901
http://www.technology-assoc.com

QUALIFICATIONS

Licensed Professional Engineer, New York

Professor of Civil Engineering, Manhattan College. Teach graduate courses on retaining walls, including forensic experience

Numerous projects involving geotechnical investigations for all types of on-land structures, including high-rise buildings, and shallow water marine facilities such as piers and bulkheads

In-depth experience in the use of controlled blasting for rock excavation in urban environments and the analysis of mat foundations.

A wide variety of projects in chemical and metals production, petroleum handling and refining, and solid- waste- to- energy facilities.

Experience in the behavior of large-diameter tanks on grade, including under unusual conditions involving freezing and thawing.

Over 100 publications in leading Civil Engineering Journals

Reviewed technical-paper manuscripts for the American Society of Civil Engineers and the Transportation Research Board.

EDUCATION

1979	Ph.D.	Polytechnic Institute of New York
1972	M.S.	Columbia
1971	B.S.	Columbia

EXPERIENCE

1987-Present	Engineering Consultant
1980-1987	Woodward-Clyde Consultants; New York. NY
1974-1980	Dames and Moore; New York, NY
1972-1974	Port Authority of New York and New Jersey

RESEARCH

198 1-1987	Columbia University; New York, NY
1987-Present	Manhattan College
1994-1995	Lamont-Doherty Earth Observatory

PROFESSIONAL SOCIETIES

American Society of Civil Engineers
American Society for Testing and Materials
British Geotechnical Society
International Geosynthetics Society
International Society for Soil Mechanics and Foundation Engineering
North American Geosynthetics Society
Transportation Research Board