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## **IRVING U. OJALVO - TECHNOLOGY ASSOCIATES**

Structures, Biomechanics and Safety Expert, Retired Senior Scientist (Columbia University)

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

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

Author of over 100 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****(CT & NY)**

Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety Expert

Phone: (800) 358-9909

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email: kseluga@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., &amp; Ojalvo, I., "A Parametric Study of Golf Car and Personal Transport Vehicle Braking Stability," J Accident Analysis &amp; 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., Ojalvo, I. &amp; 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., &amp; Ojalvo, I., "Braking Hazards of Golf Cars and Low Speed Vehicles," J Accident Analysis &amp; Prevention 2006; 38:6:1151-1156.

Ojalvo, I., &amp; Seluga, K., "Determining Impact Speed and Occupant Injury Propensity in Low-Speed Rear End Collisions," J Whiplash &amp; Related Disorders 2006; 5:1:29.

Seluga, K., Ojalvo, I. &amp; Obert, R., "Low Speed Vehicle Passenger Ejection Restraint Effectiveness," J Accident Analysis &amp; Prevention 2005; 37:4:801-806.

Seluga, K., Obert, R. &amp; 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. &amp; 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., 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**

(CT &amp; NY)

Mechanical Engineering, Accident Reconstruction, Biomechanics and Safety

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**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, CT2002-2007 Research Assistant and Teaching Assistant, MIT  
Cambridge, MA2004 (summer) Research Engineer, Sandia National Laboratories  
Albuquerque, NM2001 (summer) Fiber Optics Research and Development, Finisar  
Sunnyvale, CA2000 (summer) HVAC Engineer, Case-New Holland  
Burr Ridge, IL**Selected  
Publications**

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*, to appear

L. L. Baker and N. G. Hadjiconstantinou, "Variance-reduced particle methods for solving the Boltzmann equation." *Journal of Computational and Theoretical Nanoscience*, Vol. 5, No. 2, 2008

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

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

**Awards and  
Organizations**

MIT Presidential Fellow, 2002

Tau Beta Pi Engineering Honor Society, 2002

Pi Tau Sigma Mechanical Engineering Honor Society, 2001

American Society of Mechanical Engineers (ASME), 2007

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**ROBERT N. COPPOLINO - CALIFORNIA TECHNOLOGY ASSOCIATES**

Mechanical Engineering, Accident Reconstruction & Failure Analysis

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Granada Hills, CA 91344

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**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

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**OREN MASORY - FLORIDA TECHNOLOGY ASSOCIATES**  
**Professor and Department Chairman of Mechanical Engineering, Florida Atlantic University**

**Engineering and Human Factors Expert**

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Boca Raton, FL 33433

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**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

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**LAWRENCE V. HMURCIK - CONNECTICUT TECHNOLOGY ASSOCIATES**

Professor and Chairman of Electrical Engineering, University of Bridgeport

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Stamford, CT 06905

Phone: (203) 329-9909 FAX: (203) 329-9901  
<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