STEVEN WOOD, M.SC. - CURRICULUM VITAE - BIOMECHANIST

6407 ALONDRA BOULEVARD, PARAMOUNT, CA 90723-3759

EDUCATION

1996 **M.SC.** **QUEEN'S UNIVERSITY**, KINGSTON, ONTARIO, CANADA
Master of Science – Biomechanics

1994 **B.P.H.E.** **QUEEN'S UNIVERSITY**, KINGSTON, ONTARIO, CANADA
Bachelor of Physical and Health Education – Biomechanics

1994 **B.A.** **QUEEN'S UNIVERSITY**, KINGSTON, ONTARIO, CANADA
Bachelor of Arts – History

PROFESSIONAL EXPERIENCE

1998 - Present **ROGER CLARK ASSOCIATES**
Biomechanist / Expert Witness Injury Biomechanics research and analysis for expert witness testimony including assessment of injury causation in automobile accidents, slip-trip/fall, occupational and sports/recreation accidents.

1997 – 1998 **INDEPENDENT BIOMECHANIST / EXPERT WITNESS**
Consultant and Expert Witness in Biomechanics

1996 – 1997 **BIOMECHANICS RESEARCH & CONSULTING, INC.**
Biomechanist / Expert Witness

1994 – 1996 **QUEEN'S UNIVERSITY, School of Physical and Health Education**
Teacher's Assistant/Unit Instructor – Biomechanics
Lecture and laboratory demonstrations in topics related to Biomechanics.

1994 – 1996 **QUEEN'S UNIVERSITY, School of Physical and Health Education**
***Research Assistantship* – Human Morphometric Investigation**
School of Physical and Health Education
Development and implementation of protocol for human morphometric investigation using modern medical imaging systems.

1995 – 1996 **QUEEN'S UNIVERSITY, Kingston, Ontario, Canada**
ST. MARY'S OF THE LAKE HOSPITAL, Kingston, Ontario, Canada
CANADIAN ADAPTIVE SEATING AND MOBILITY ASSOCIATION
Biomechanics Studentship
Development of mechanical assessment protocols and characterization of hospital's adaptive devices inventory using relational databases.

PUBLICATIONS

Wood S, Reid JG, Ashworth A, Davidson LA *Magnetic Resonance Imaging Investigation of Trunk Musculature Asymmetry in Adolescent Idiopathic Scoliosis*, Submitted for Review, 1997.

Reid JG, Wood S and Pearsall DJ. *Interval Measurement Error of Musculature from MRI,* Submitted for Review, 1997.

PUBLICATIONS – (CON'T)

Wood S, Pearsall DJ, Ross R and Reid JG. *Trunk Musculature Measurement of Thin and Obese Male Using Transverse Magnetic Resonance Imagery* **Clinical Biomechanics**, Vol. II, No. 3, 139-144, 1996

COMPUTING SKILLS

High level of proficiency in the following operating platforms, programming languages, and software applications:

Operating Systems / Platforms / Network Protocols

Windows 95, Windows NT, UNIX, Microsoft Windows, Windows NT Server networks, Novell Server networks.

Programming Languages

Visual Basic, Hyper-Text Mark-up Language (HTML), Java, Pearl, Common Gateway Interface (CGI)

Applications

Microsoft Word, Novell WordPerfect, Microsoft Access, Microsoft PowerPoint, Borland Paradox, Labview 4.0, Endnote, AutoCAD R13, 3D Max, Lotus123, Lotus Approach, Chartist, SigmaScan, SigmaPlot, Noton Utilities, & Colorado Back-Up.

Projects

- Development and implementation of multiple applications for experimental instrumentation, data collection, signal conditioning, and data analysis.
- Web Site authoring including development of Java applets and CGI's for interactivity.
- Complete office automation including hardware, software, intranet, and internet. (Patton & Benotto Investment Group, Inc., Beverly Hills Property Management Company.

UNPUBLISHED RESEARCH PAPERS

Wood S. "Anatomy and Mechanics of the Shoulder Joint." Graduate Biomechanics Major Paper, Queen's University, 1995.

Wood S. "Industrial Design of Biomedical Implant Technology," Graduate Biomechanics Major Paper, Queen's University, 1995.

Wood S. "The Efficacy of Intra-abdominal Pressure in Reducing Spinal Compressive Loads, Graduate Biomechanics Major Paper, Queen's University, 1995.

Wood S. "Human Tissue Mechanics," Graduate Biomechanics Major Paper, Queen's University 1995.

Wood S. "Validation of the OPTOTRACK as an instrument for human motion analysis," Graduate Biomechanics Major Paper, Queen's University, 1994.

Wood S. "Physical Principles and Applications of Magnetic Resonance Imaging," Graduate Biomechanics Major Paper, Queen's University, 1994.

UNPUBLISHED RESEARCH PAPERS (CON'T)

Wood S. "Physical Principles and Applications of Electromyography, "Graduate Biomechanics Major Paper, Queen's University, 1994.

Wood S. "Physical Principles and Applications of Isokinetic Resistance Strength Testing," Graduate Biomechanics Major Paper, Queen's University, 1994.

ACADEMIC HONORS

1996 Teaching Excellence Award – Undergraduate biomechanics seminars
1995 Queen's University Graduate Research Award
1995 Canadian Adaptive Seating and Mobility Association Studentship
1993 Isabella MacRae Bursary Award
1992 Ruben Wells Leonard Scholarship
1992 Physical Health and Education Class of '94 Second Place Standing
1991 Physical Health and Education Book Prize '75
1991 Physical Health and Education Class of '94 First Place Standing
1990 Rotary Award and Scholarship
1990 Sarah and Donald Munroe Memorial Scholarship

PRESENTATIONS

Wood S and Reid JG. "Magnetic Resonance Imaging Investigations of the Trunk Muscle Asymmetry in Adolescent Idiopathic Scoliosis," First Annual Meeting of the International Research Society of Spinal Deformities, Stockholm, Sweden, June 1996.

Wood S and Costigan P. "Assessment Protocol and Relational Database Characterization of Hospital Adaptive Devices Inventory," The 10th Canadian Seating and Mobility Conference, Toronto, Canada, September 1995.

Reid JG, Wood S and Pearsall DJ, "Interval Measurement Error of Musculature from MRI," 15th Congress of the International Society of Biomechanics Conference, Jyvaskyla, Finland, 1995.

Wood S, Pearsall DJ, Ross R and Reid JG. "Trunk Musculature Measurement of Thin and Obese Males Using Transverse Magnetic Resonance Imagery," Canadian Society of Biomechanics Conference, Calgary, Alberta, Canada, August 1994.

Wood S, Pearsall DJ, Ross R and Reid JG. "Trunk Musculature Measurement of Thin and Obese Males Using Transverse Magnetic Resonance Imagery," Queen's University, Kingston, Ontario, Canada, June 1993.

Wood S, Pearsall DJ, Ross R and Reid JG. "Trunk Musculature Measurement of Thin and Obese Males Using Transverse Magnetic Resonance Imagery," American Society of Biomechanics, University of Iowa, October 1993

SEMINARS AND COURSES

1997/ August Society for Automotive Engineering:
Airbag Design and Performance TOPTEC – Costa Mesa, CA

1997/ March Texas Association of Accident Reconstruction Specialists:
Practical Application of Biomechanics, Low Speed Crash Tests and Analysis, Hazardous Materials at Crash Scenes & Air Bag Injury Causation – Bryan, TX.

1997/ March Texas A&M University, Texas Engineering Extension Service:
Crash '97 Conference – College Station, TX

1997 / June University of California Los Angeles
Lectures on the application and advancement of internet multimedia technologies in the modern marketplace. Dr. George Giess

1996/ DecemberAssociation for the Advancement of Automotive Medicine:
Impact Biomechanics and Current Occupant Restraint Issues – Chicago, IL

PROFESSIONAL MEMBERSHIPS

Association for the Advancement of Automotive Medicine (**AAAM**)
Canadian Society of Biomechanics (**CSB**)

CERTIFICATIONS / LICENSURE

1993 - Present **AMERICAN KDW KARATE ASSOCIATION**
Nationally Certified 2nd Degree Black-Belt Martial Arts Instructor
Instructional lectures, seminar series, and professional level coaching in the martial arts.

First Aid Certification, Cardio-Pulmonary Resuscitation Certificate

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LANGUAGES

English, French (conversational), Italian (conversational)