

# CURRICULUM VITAE



## EDUCATION

**Doctor of Science**<sup>1</sup> The George Washington University  
1992 Engineering Management & I/O Psychology

**Doctor of Philosophy** University of Maryland 1976  
Physiology/Pharmacology & Biopsychology

**Masters of Science** University of Maryland 1974 General  
Physiology

**Bachelors of Science** University of Maryland 1972  
Electrical Engineering (biomedical emphasis)

## LICENSURE AND CERTIFICATION

**Certified Quality Engineer**<sup>2</sup>  
American Society for Quality, (#47957; 2005)

**Certified Professional Ergonomist**<sup>3</sup>  
Board of Certification in Professional Ergonomics (#950; 1998)

**Professional Engineer**<sup>4</sup>  
State of Maryland & Colorado eligible (#13004; 1980)

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<sup>1</sup> **Engineering Management** is a subdiscipline of Industrial Engineering; the other three subdisciplines of IE are: Engineering **Ergonomics**, Engineering Economics, and Work Science.

<sup>2</sup> The **Certified Quality Engineer** is a professional who understands the principles of product and service quality evaluation and control. This body of knowledge and applied technologies include, but are not limited to, development and operation of quality control systems, application and analysis of testing and inspection procedures, the ability to use metrology and statistical methods to diagnose and correct improper quality control practices, an understanding of human factors and motivation, facility with quality cost concepts and techniques, and the knowledge and ability to develop and administer management information systems and **to audit quality systems for deficiency identification and correction**. CQE requires EIGHT years of higher education and/or work experience including THREE years in a decision-making position.

<sup>3</sup> The **Certified Professional Ergonomist** is a practitioner of human factors/ergonomics. A practitioner is defined as an individual who has (1) a mastery of ergonomics knowledge; (2) a command of the methodologies used by ergonomists in applying that knowledge to the design of a product, process, or environment; and (3) has applied his or her knowledge **to the analysis, design, test, and evaluation of products**, processes, and environments.

<sup>4</sup> The term **Professional Engineer** and the actual practice of professional engineering is legally defined and protected by a government body. In some jurisdictions, only registered or licensed Professional Engineers are permitted to use the title, or to practice Professional Engineering. The earmark that distinguishes a licensed/registered Professional Engineer is the authority to sign and seal or "stamp" engineering documents (reports, drawings, and calculations) for a study, estimate, **design or analysis**, thus taking legal responsibility for it

## EMPLOYMENT RECORD

### **CEO Samaras & Associates, Inc.** 1996-present

Consulting firm involved in software engineering, human factors engineering, computer systems validation, quality engineering, technical management consulting, expert testimony, and occupational & environmental health & safety research. Corporate clients range from new start-ups to Fortune 500 multinational firms; also consulted with universities, government agencies, and labor unions. *Most of our consulting contracts are bound by strict confidentiality agreements and are not reflected in this document.*

### **Adjunct Professor University of Southern Colorado** Fall 1997-Spring 98

Graduate Program in Systems Engineering, (graduate courses in Project Management and Ergonomics—with lab).

### **Associate Director US Food and Drug Administration** 12/95-6/96

Division of Electronics and Computer Science, Center for Devices and Radiological Health, FDA (this is the same entity, renamed, where I worked from 1968 – 1972). Managed, with the Division Director, a staff of 40, consisting largely of scientists and engineers with advanced degrees and an annual operating budget (excluding salaries and facilities) of about 750K\$. Primarily responsible for electronics & software activities, while the Director (a medical physicist) was primarily responsible for medical imaging & ionizing radiation activities. Involved in initiating process of a software validation guidance document for industry.

### **Interdisciplinary Scientist US Food and Drug Administration** 6/94 -11/95

Interdisciplinary scientist and primary software engineering reviewer in the Division of Ophthalmic Devices, Center for Devices and Radiological Health, FDA; primary duties included the engineering review of ophthalmic medical devices utilizing software. Teamled development of industry guidance for ophthalmic lasers systems that was approved by outside advisory committee. Appointed one of Center's experts on electromagnetics. Numerous FDA individual and group recognition awards for FDA regulatory work on ophthalmic laser systems and computer software.

### **Visiting Senior Scholar The George Washington University** 9/93 – 12/94

#### **Visiting Professor The George Washington University** 1/93 – 9/93

Dept. Engineering Management and Systems Engineering, Graduate School of Engineering and Applied Sciences. Taught graduate management courses (including marketing management and entrepreneurial management). Conducted theoretical (mathematical) research in Industrial Engineering (organizational theory and measures of organizational efficiency and effectiveness).

### **Dissertation Research, The George Washington University** Washington, DC 1992

### **CEO GMS Engineering Corporation** Columbia, MD 1981-1991

Began and managed a contract biomedical engineering firm providing development work for federal (DoD and NIH) and private clients. Federal projects included: (a) prototype mechanical, electrical, electronic, and software development of an NBC-hardened vital signs monitor and an NBC-hardened flash reflectance oximeter for the US Army; (b) R&D on an algorithm and hardware implementation for electroencephalography artifact reduction for the US Army and the NINCDS; (c) theoretical work and mathematical modeling on workload leveling and other ergonomics issues for Army AH-64 helicopter pilots; and (d) prototype development of an airworthy biomedical data acquisition system for the USAF. Developed first human sympathetic neural prosthesis (Lancet, 1983). The

firm's engineers and scientists were also involved in other consulting jobs in the areas of biomedical engineering, software development, and system test & evaluation with larger commercial organizations. Annual budgets ranged from 700K\$ to 1100K\$, after the first year.

**Associate Professor University of Maryland School of Medicine** 1980–82;p/t 83-86

**Assistant Professor University of Maryland School of Medicine** 1976 – 1980

Department of Radiation Oncology. Managed a medical school-based academic research and teaching laboratory (cancer research funded by ACS, NIH/NINCDS, and the Whittaker Foundation) conducting research in biomedical engineering related to brain tumor and esophageal cancer therapy. Taught graduate physicians & and doctoral students physiology, biophysics and biomedical aspects of microwave engineering.

**Graduate Teaching Asst. University of Maryland College Park** 1974-1976

Department of Zoology, undergraduate physiology laboratory and graduate seminar in neuropharmacology

**Biomedical Engineer** U.S. Environmental Protection Agency. 1971-1972

**Computer Technician** U.S.D.H.E.W., Bureau of Radiological Health 1970-1971

**Biochemistry Lab. Tech.** U.S.D.H.E.W., Bureau of Radiological Health 1968-1970

**Technician** St. Savvas Anticancer Hospital Athens, Greece 1965-1967

## LANGUAGE FLUENCY

### Computer languages and Application Software:

Fluent in Intel assembly language, proficient in C/C++, SQL, HTML, and various other computer languages. Proficient with a variety of software development CASE tools (MS DevStudio, MS VisualSourceSafe, ER/Studio, MSFrontPage, Rational's RequisitePro, Rational's Rose, etc.), electrical engineering tools (MultiSIM, MPLAB, FilterLab), human factors engineering tools (MannequinPRO, MS Visio), statistical software (NCSS/PASS), and mathematical software (MathCAD). Proficient with MS Office (with MSProject).

### Modern European Languages:

Fluent in Modern Greek

## INTERESTS

### RESEARCH

Systems Engineering, Man-Machine Systems, Human Organizational Structures, and Engineering Ethics

### PERSONAL INTERESTS

Snow skiing, Dressage, Hiking/Backpacking, Scuba diving, and Soaring.

### PERSONAL DATA

Born: January 6, 1948, Ottawa, Ontario, Canada; US Citizen

Family: Married to Elizabeth Averill; one child, Demetrios

Contact Information: 7755 Soda Creek Road, Red Creek Ranch, Pueblo, CO 81005

Telephone: (719) 485-3751 E-mail: [george@samaras.eng.pro](mailto:george@samaras.eng.pro)

## **TITLE OF SECOND DOCTORAL DISSERTATION**

**D.Sc.** - directed by Prof. R.C. Waters  
Organizational Effectiveness: Towards a Unifying Theoretical Perspective.

## **TITLE OF FIRST DOCTORAL DISSERTATION**

**Ph.D.** - directed by Prof. J.F. Contrera  
*In vivo* Demonstration of Sodium-dependent High-affinity Hippocampal Choline Uptake.

## **TITLE OF MASTER'S THESIS**

**M.S.** - directed by Prof. J.F. Contrera  
A Biochemical Approach for Elucidating Protein Uptake in Mammalian Tissue.

## **ADDITIONAL TRAINING**

**Woods Hole Marine Biological Laboratory**, Woods Hole, MA, Summer course, laboratory and field research in Invertebrate Zoology (1974).

**National Geographic Society Expedition**, Isla Mujeres, Mexico, Scuba diving study of sharks and their physical environment with Dr. Eugene Clark (1973). Designed, built, and used all the submersible electronics equipment required for the study as part of my graduate course in marine biology.

**Flight Training** (FAA #2169558)

**Scuba Training** (NASDS #8454).

## **PROFESSIONAL ASSOCIATIONS** (past and present)

Aerospace Medical Association  
American Association for Advancement of Science  
American Management Association  
American Society for Cybernetics  
Association for the Advancement of Medical Instrumentation  
Human Factors and Ergonomics Society  
Institute of Electrical and Electronics Engineers (senior member)  
Institute of Industrial Engineering (senior member)  
Institute of Validation Technology  
International Society of Pharmaceutical Engineers  
Maryland Society of Professional Engineers  
National Society of Professional Engineers (licensed member)  
New York Academy of Sciences  
Society for Neuroscience  
Society for Psychophysiological Research

## **ACADEMIC RESEARCH AWARDS**

### **University of Maryland School of Medicine**

Principal Investigator, NIH/NINCDS Research Grant "Focal Microwave Radiation Therapy: Preclinical Evaluation" (10/79-9/82; \$332,873) & (4/83-3/85; \$218,198).

Principal Investigator, Whitaker Foundation Research Grant "Computer-Controlled Multiple-Beam Microwave Thermo-therapy" (11/78-10/81) (\$106,414).

Principal Investigator, American Cancer Society Research Grant, "Hyperthermal Radiotherapy for Brain Tumors Using Focused Microwaves" (1/1978-12/1980) (\$100,000).

Principal Investigator, University of Maryland Hospital Radiology Department Faculty Research Award (1976-1978) (\$5,000).

Co-Investigator, on numerous other grants and contracts (1977 – 1984).

### **University of Maryland College Park**

Co-Principal Investigator, Huntington's Chorea Foundation Research Grant, (1973-1977; \$25,000). I wrote this grant proposal as a graduate student and submitted it with my dissertation advisor in order to fund my MS/PhD research.

### **INDUSTRIAL CONTRACTS** (non-confidential or non-classified only)

#### **Samaras & Associates, Inc.**

*Most of our FDA-related industrial contracts are bound by strict confidentiality agreements and are not listed here.*

Consultant, Ergonomics Training for Vocational Rehabilitation Counselors, IAMAW, 2001

Consultant, University of Maryland School of Nursing, "EnvirRN", 2000

Consultant, University of Maryland School of Medicine, USDOE Task Ordering Contract, 1998 – 2000

Consultant, USDOE/NIOSH Former Worker Medical Surveillance Program Phase I Grant, 1998

Consultant, Consortium for Risk Evaluation with Stakeholder Participation, USDOE funding to the University of Medicine and Dentistry of New Jersey and the University of Washington (6/96 -3/99)

Consultant, MEDCO Foundation Grant (1994 -1996)

#### **GMS Engineering Corporation**

Principal Investigator, Development of an EEG Artifact Correction Device, US Army Medical R&D Command, DAMD17-89-C-9045, 2/89-11/89

Principal Investigator, Development of an Advanced Life Detector, US Army Medical R&D Command, DAMD17-88-C-8143, 7/88-9/89

Principal Investigator, Development of a Prototype Sympathetic Neural Prosthesis, National Institute of Neurological and Communicative Disorders and Stroke, 9/87-10/89

Principal Investigator, Conceptual Design of a Biocybernetic Link for Workload Leveling via Dynamic Task Partitioning, US Army Medical R&D Command, DAMD17-86-C-6027, 10/85-6/86 (see NASA CP 2504, pgs. 43-55, 1988).

Principal Investigator, Advanced Development of an NBC-Hardened Portable Vital Signs Monitor, US Army Medical R&D Command, DAMD17-86-C-6067, 10/85-10/87.

Principal Investigator, Exploratory Development of Chemically Hardened Vital Signs Monitor, US Army Medical R&D Command, DAMD17-83-C-3064, 2/83-6/85.

Principal Investigator, Development of a Prototype Computerized Microwave Thermotherapy System, CompuMed Corp., 3/82-6/83.

Co-Investigator, Numerous other biomedical R&D projects awarded to GMS Engineering Corporation, including various SBIRs and commercial product development/testing contracts, 1981 - 1991.

### **Cheung, Samaras & Stuchly, Consultants**

Consultants to various commercial organizations on the (non-telecomm) applications of ISM-band radiation, 1978 – 1980

## **SELECTED PROFESSIONAL ACTIVITIES**

**Peer Review Panel Member**, USAISR Combat Casualty Research Program (6/9-10/2009)

**Proctor**, BCPE and ASQ certification examinations, (2003 - present)

**Publicity Chair**, IEEE Pike's Peak Section (7/97 - 7/01)

**Member**, various software engineering standards development committees for the FDA and IEEE (1994-1996)

**External Reviewer**, Veterans Administration (1981-1985)

**Reviewer**, (for numerous technical journals) (1981-1985)

**Technical Reviewer**, National Institutes of Health (NCI & NINCDS) (1981-1985)

**Guest Editor**, J Microwave Power, Special issue on Microwave and Radiofrequency Hyperthermia in Cancer Therapy, Vol. 16(2), 1981

**Member**, W.H.O. Scientific Review Committee (Radiofrequency and Microwave Bioeffects) (November, 1978)

**External Reviewer**, National Science Foundation (1978-1985)

**Moderator**, Methods of Heating Session, Symposium on Hyperthermia as an Antineoplastic Agent, Norfolk, VA (January, 1978)

**Member**, High Frequency Therapeutic Device National Standards Committee, Association for the Advancement of Medical Instrumentation (1977 – 1985)

**Consultant**, University of Maryland, Department of Psychology, Computer Systems Hardware/Software Interfacing (Summer, 1975)

**Chief Editor**, Forum, a journal of the American Society for Cybernetics (1973-1974)

**Consultant**, U.S. Environmental Protection Agency, Computer (Cybernetic) Systems (1972-1973)

## **NON-RESEARCH AWARDS & HONORS**

Numerous FDA individual and group recognition awards for FDA regulatory work on ophthalmic laser systems and computer software (1994/1995)

Who's Who in Frontier Science and Technology (biographee, 1984/85).

Full IEEE membership as undergrad after 1971 IEEE/MTT peer-reviewed publication

## **PATENTS**

**Samaras**, G.M., Falk, S.M., and Blaumanis, O.R., Flash Reflectance Oximeter, U.S. Patent Number: 5,069,214; December 3, 1991

**Samaras**, G.M. and Falk, S.M., Blood Pressure Measurement System for Filtering Low-Frequency, High-Amplitude Noise, U.S. Patent Number:4,858616; August 22, 1989

**Samaras**, G.M., Blaumanis, O.R., and Van Horn, H.Wm., Noise-Immune Blood Pressure Measurement Technique and System, U.S. Patent Number:4,649,928; March 17, 1987.

## **PUBLICATIONS I** (Peer-Reviewed Publications; [see next section for other publications](#))

**Samaras**, GM. The Use, Misuse, and Abuse of Design Controls. IEEE EMB Magazine (in press)

**Samaras**, G.M. Human-Centered Systems Engineering: Building Products, Processes, and Services. Proc. 2010 SHS/ASQ Conference, February 25-27, 2010 on CD-ROM (6 pages)

**Samaras**, G.M. & Samaras, E.A. Feasibility of an e-Health Initiative: Information NWDs of Cancer Survivor Stakeholders, Proc. 17<sup>th</sup> World Congress on Ergonomics, August 9-14, 2009, Beijing, China, on CD-ROM (10 pages).

**Samaras**, G. M., "Systems Engineering for the Human Factors Engineer: A Workshop", a 4-hour workshop, Proc. 16th World Congress on Ergonomics (IEA 2006), Maastricht, Netherlands, July 13, 2006, on CD-ROM (6 pages).

**Samaras**, G. M., "An Approach to Human Factors Validation", J. Validation Technology, 12(3):190-201, 2006.

**Samaras**, G. M. "Engineering Complex Systems: Validating the Human Factors", Proc. 7th Annual Symposium on Human Interactions with Complex Systems, Greenbelt, MD, November 17-18, 2005, on CD-ROM (8 pages).

**Samaras**, G. M., Horst, R. L., "A systems engineering perspective of the human centered design of health information systems", J. Biomedical Informatics, 38(1):61-74, 2005.

Horst R.L., **Samaras**, G. M., "Validation Engineering in the Ergonomics of Medical Systems: Application Perspectives", Proc. 47th Annual HFES Meeting, pgs 1458 -1462, Denver, CO, October 13-17, 2003.

**Samaras**, G. M., "Validation Engineering in Ergonomics: Theoretical Perspectives", Proc. 47th Annual HFES Meeting, pgs 1453 -1457, Denver, CO, October 13-17, 2003.

**Samaras**, G.M., "Towards a Mathematical Formalism of Performance, Task Difficulty, and Activation" (invited paper), Proc. 1987 NASA Workshop on Mental State Estimation, Williamsburg, VA, June 3-4, NASA CP 2504, pgs. 43-55, 1988

Almenas, K., Moore, R., **Samaras**, G.M., and Blaumanis, O.R., "Temperature distribution calculation in tissues with assymetric geometry and temperature dependent sources and blood perfusion rates", J Am Soc Mech Eng, 61:55-64, 1986

Salazar, O.M., **Samaras**, G.M., Eddy, H.A., Amin, P.P., Sewchand, W., Drzymala, R.E., and Bajaj, K.G., "Henschke memorial oration, Neurobrachytherapy: a new frontier", Endocur/Hyperth Oncol, 2:S-3-S-15, 1986.

**Samaras**, G.M., Eddy, H.A., Better, W.E., and Carlyle, J.R., "The use of swine in brain interstitial radiation studies", Lab Animal Science, 36:381-385, 1986

Sewchand, W., Amin, P.O., Drzymala, R.E., Salazar, O.M., Salcman, M., **Samaras**, G.M., and Batero, E., "Removable high-intensity iridium-192 brain implants", J Neurooncology, 2:177-186, 1984

**Samaras**, G.M., "Intercranial microwave hyperthermia", IEEE Trans Biomed Engin, (invited paper) BME-31(1):63-69, 1984.

Salcman, M. and **Samaras**, G.M., "Interstitial microwave hyperthermia for brain tumors: Results of a phase I clinical trial", J Neurooncology, 1:225-236, 1983

Polinsky, J.R., **Samaras**, G.M., and Kopin, I.J., "A sympathetic neural prosthesis for managing orthostatic hypotension", Lancet, April 23, pp. 901-904, 1983

**Samaras**, G.M., Rosenbloom, S., and Cheung, A.Y., "Correction of microwave-induced thermistor sensor errors", Med Phys, 10(3):326-332, 1983.

Harrison, G.H., Robinson, J.E., and **Samaras**, G.M., "Temperature uniformity in hyperthermal tumor therapy", Proc Symp Hyperthermia Antineoplastic Treatment Modality, NASA Publ. 2051, pp. 27-31, 1978

Salcman, M. Kaplan, R.S., **Samaras**, G.M., Ducker, T.B., and Broadwell, R.D., "Aggressive multimodality therapy based on a multicompartmental model of glioblastoma", Surgery, 92:250-253, 1982

**Samaras**, G.M., Salcman, M., Cheung, A.Y., Abdo, H.S., and Schepp, R.S., "Microwaveinduced hyperthermia: an experimental adjunct to brain tumor therapy", J Natl Cancer Inst, 61:477-482, 1982

Scott, R.M., Cheung, A.Y., and **Samaras**, G.M., "Clinical local heating - microwaves (invited paper)", 3rd Int Symp Cancer Therapy Hyperthermia, Drugs & Radiation, J Natl Cancer Inst, 61:351-355, 1982

Robinson, J.E., Cheung, A.Y., Harrison, G.H., and **Samaras**, G.M., "The response of mouse mammary tumors to microwave heating at 2.45 GHz", Radio Science, 17(2), 1982

Taylor, L.S., **Samaras**, G.M., Cheung, A.Y., Salcman, M., and Scott, R.M., "Implantable microwave antennas for clinical hyperthermia", Radio Science, 17(2):1255-1335, 1982

**Samaras**, G.M. and Cheung, A.Y., "Microwave hyperthermia in cancer therapy (invited tutorial review)", CRC Crit Rev Bioengineering, 5(2):123-184, 1981

Cheung, A.Y., Golding, W.M., and **Samaras**, G.M., "Direct contact applications for microwave hyperthermia", J Microwave Power, 16(2):151-159, 1981

**Samaras**, G.M., Van Horn, H.W., King, V.F., Slawson, E.L., and Cheung, A.Y., "Clinical hyperthermia systems engineering", J Microwave Power, 16(2):161-169, 1981

Salcman, M. and **Samaras**, G.M., "Hyperthermia for brain tumors: biophysical rationale", Neurosurgery, 9(3):327-335, 1981

Stuchly, M.A., Athey, T.W., Stuchly, S.S., **Samaras**, G.M., and Taylor, G.E., "Dielectric properties of animal tissues *in vivo* at frequencies 10MHz - 1GHz", Bioelectromagnetics J, 2(2):93-103, 1981

Stuchly, M.A., Athey, T.W., **Samaras**, G.M., and Taylor, G.E., "Measurement of radio frequency permittivity of biological tissues with an open-ended coaxial line: part II. Experimental results", IEEE Trans Microwave Theory & Techniques, 30(1):87-92, 1981

Salcman, M., **Samaras**, G.M., and Kaplan, R., "Experimental adjuncts in the combined modality treatment of glioblastoma multiforme", Proc 1st Sandie Altman Conf, pp. 73-76, Univ of Penna Med School, Philadelphia, PA, 1980

Salcman, M., **Samaras**, G.M., Mena, H., Monteiro, P., and Garcia, J., "Whole body hyperthermia: potential hazards in its application to glioblastoma", in Multidisciplinary Aspects of Brain Tumor Therapy, P. Paoletti, M.D. Walker, G. Butti, and R. Knerich (eds.), pp. 351-356, Elsevier/North-Holland Biomedical Press, 1979

**Samaras**, G.M., Robinson, J.E., Cheung, A.Y., and Weinmann, S.F., "Focussed microwave radiation therapy for deep tumors", Proc Symp Hyperthermia Antineoplastic Treatment Modality, NASA Publ. 2051, pp. 67-68, 1978

Robinson, J.E., Harrison, G.H., McCready, W.A., and **Samaras**, G.M., "Good thermal dosimetry is essential to good hyperthermal research", Br J Radiol, 51:532-534, 1978. Salcman, M. and **Samaras**, G.M., "Neurosurgery and clinical engineering (invited paper)", J Clin Engineering, 3(3):251-256, 1978

Robinson, J.E., Cheung, A.Y., **Samaras**, G.M., and McCulloch, D., "Techniques for uniform and replicable microwave hyperthermia of a model mouse carcinoma (invited paper)", IEEE Trans Microwave Theory & Techniques, 26(8):546-549, 1978

Cheung, A.Y., Robinson, J.E., McCulloch, D., and **Samaras**, G.M., "Simultaneous free field irradiation of multiple tumors for microwave hyperthermia (Proc. 2nd Int. Symp.)", in Cancer Therapy by Hyperthermia and Radiation, C. Streffer (ed.), pp. 128-130, Urban and Schwarzenberg, Baltimore-Munich, 1978

**Samaras**, G.M., Robinson, J.E., Cheung, A.Y., Prempre, T., and Slawson, R.G., "Production of controlled hyperthermal fields for cancer therapy (Proc. 2nd Int. Symp.)", in Cancer Therapy by Hyperthermia and Radiation, C. Streffer (ed.), pp. 131-133, Urban and Schwarzenberg, Baltimore-Munich, 1978

**Samaras**, G.M. and Contrera, J.F., "Choline: high affinity uptake *in vivo* by rat hippocampus", J Neurochem., 28:1373-1376, 1977

**Samaras**, G.M., "Scientific research and social responsibility: self regulation or external controls", Amer Soc Cyber Forum, 6(2):1-2, 1974

**Samaras**, G.M., Anderson, G.E., and Rolofson, J.R., "An automated biological stress research facility", Proc 1972 IEEE-ASC Inter Conf Cyber & Soc, 1972

**Samaras**, G.M., Muroff, L.R., and Anderson, G.E., "Prolongation of life during high intensity microwave exposures", IEEE Trans Microwave Theory & Techniques, 19(2):245-247, 1971.

**Samaras**, G.M., Anderson, G.E., and Rolofson, J.R., "A controlled environmental facility", Radiation Bioeffects, BRH/DBE 70(7):72-74, 1970

**Samaras**, G.M., Muroff, L.R., and Anderson, G.E., "Prolongation of life in a microwave field by means of an environmental chamber", Radiation Bioeffects, BRH/DBE 70(1):59-61, 1969

## **PUBLICATIONS II** (Technical Reports, Invited Presentations, and Peer-Reviewed Workshops)

**Samaras**, GM. Presenter & panelist, FDA Workshop on Medical Device Interoperability. FDA White Oak Campus, Silver Spring, MD. January 25-27, 2010

**Samaras**, GM. Letter to the Editor: Mathematical Knowledge and Practice. IEEE Computer. 42(12):7 (2009)

**Samaras**, GM. Integrative Approach to Medical Device Safety: Human-Centered Systems Engineering. Presented at 2009 IEEE PSES Symposium on Product Compliance Engineering, Toronto, Ontario, Canada. October 26-28, 2009.

**Samaras**, GM. Letter to the Editor: Verification and Validation. IEEE EMBM. 28(4):6 (2009)

**Samaras**, GM. "Human-Centered Systems Engineering", formerly "Systems Engineering for the Human Factors Engineer (see below)", an all day workshop presented at the 17<sup>th</sup> World Congress on Ergonomics, August 9-14, 2009, Beijing, China and HFES 2009, San Antonio, Texas, October 19-23, 2009.

**Samaras**, EA & GM. "Information Needs, Wants, & Desires of Cancer Survivors", Annual Colorado Cancer Summit, Grand Junction, CO. October 6, 2008

**Samaras**, EA & GM. "Colorado Comprehensive Cancer Program - Creating a Comprehensive, Statewide Cancer Resource Directory: A Feasibility Study". Final report. Order # PPG07000175. June 30, 2007

**Samaras**, G.M., "Human-Centered Systems Engineering", Workshop at IASTED Telehealth 2007, Montreal, Quebec, Canada. May 31, 2007

**Samaras**, G. M., Horst, R. L., "Systems Engineering for the Human Factors Engineer", a 4-hour workshop, presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society (HFES 2005), Orlando, Florida, September 26, 2005. A full day version presented at the 50th Annual Meeting (HFES2006), San Francisco, CA, October 16, 2006 and at the 51st Annual Meeting (HFES2007), Baltimore, MD. October 1, 2007.

**Samaras**, G. M., Horst, R. L., "A systems engineering perspective of the human-centered design of health information systems", presented at the 8th International Symposium on Human Factors in Organizational Design and Management (ODAM 2005), Maui, HI, June 22-25, 2005.

Horst, R. L. and **Samaras**, G. M., "Validation Engineering in Ergonomics, Part II: Applications", presented at the 2003 IIE Applied Ergonomics Conference, Dallas, TX, March 10-13, 2003

**Samaras**, G. M., "Validation Engineering in Ergonomics, Part I: Theory", presented at the 2003 IIE Applied Ergonomics Conference, Dallas, TX, March 10-13, 2003

**Samaras**, G. M., "Re-certification Refuted", The Professional Ergonomist: The Newsletter of the BCPE, 8(2):4-5, 2000

Averill Samaras, E. and **Samaras**, G.M., "HAZTRAX™, An Internet-based Worker-Maintained Workplace Hazards Countermeasures Program"(invited), 1st Annual University of Washington Conference on the Ecological, Community, and Occupational Health Issues at Hanford, Richland, WA, December 3 & 4, 1997.

Averill Samaras, E. and **Samaras**, G.M., "Remediation: Worker-based Health and Hazard Surveillance", CRES - OH Task Group, UMDNJ/U.Wash. Pack Forest, Washington, June 24- 27, 1997.

Falk, S.F. and **Samaras**, G.M., "Removal of EOG from EEG via direct interrogation", NINCDS Grant Tech. Report #86-NS-23673, GMS Eng. Corp., Columbia, Md., 126 pp., 1987.

**Samaras**, G.M. and Horst, R.L., "Conceptual design of a biocybernetic link for workload leveling via dynamic task partitioning", USAMRDC Contract Tech. Report #86-C-6027, GMS Eng. Corp., Columbia, Md., 215 pp., 1986.

**Samaras**, G.M., Blaumanis, O.R., Falk, S.M., and Konodi, M.A., "Statometric blood pressure measurement", Proc 39th ACEMB, p.375, 1986.

Salazar, O.M., **Samaras**, G.M., Eddy, H.A., Amin, P.P., Sewchand, W., Drzymala, R., and Bajaj, K., "Models and methodology to assess normal brain damage after interstitial hyperthermia and interstitial radiation and their combination", presented at the ASTRO meeting, Miami, FL, Sept. 29 -Oct. 4, 1985.

Eddy, H.A., **Samaras**, G.M., Salazar, O.M., "Temporal histopathologic changes in canine brain following interstitial radiation and hyperthermia", presented at the ASTRO meeting, Miami, FL, Sept. 29 - Oct. 4, 1985.

**Samaras** G.M., Salcman, M., and Cheung, A.Y., "Interstitial microwave hyperthermia in mammalian brain: engineering, biophysics, physiology and clinical application", 1981 Microwave Power Symposium Session on Medical and Biological Applications, June 9-12, 1981, Toronto, Ontario, Canada.

Salcman, M., **Samaras**, G.M., and Abdo, H.S., "A miniature microwave antenna for thermotherapy of glioblastoma: first clinical trials", 50th Anniversary Meeting of the American Association of Neurological Surgeons, April 1981, Boston MA.

Cheung, A.Y., **Samaras**, G.M., and Taylor, L.S., "Devices for localized microwave hyperthermia", ASME 1979 Adv Bioengin, pp. 143-144, 1979.

**Samaras**, G.M., Blaumanis, O.R., and Harrison, G.H., "*In vivo* temperature/heat flow sensing in microwave fields", XIV Symp Intl Appl Energet Micro, pp. 192-193, 1979.

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