

Thomas E. von Wiegand
PhD, MA, MPhil, AB Physics, BSEE
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EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Columbia University New York City, NY	BS	1987	Electrical Engineering
Franklin & Marshall College Lancaster PA	BA	1987	Physics
Columbia University New York City, NY	MA	1990	Experimental Psychology
Columbia University New York City, NY	MPhil	1991	Experimental Psychology
Columbia University New York City, NY	PhD	1993	Visual Psychophysics
Massachusetts Institute of Technology Cambridge, MA	PostDoc	1993-1996	Elec.Eng. / Expt. Psych.

Positions and Honors.

1978 – 1983 Electronics Technician, Home Audio Electronics, JCPenney Product Service, Ephrata, PA
1980 – 1982 Founded computer peripheral company, Syntex Electronic Innovations, Lancaster, PA
1996 – 2001 Research Scientist, Massachusetts Institute of Technology / RLE, Cambridge, MA
1998 – 2000 Associate Editor, MIT Press Journal: Presence, Cambridge, MA
1998 – 2002 Staff Scientist, Sensimetrics Corp., Somerville, MA
1999 – 2001 Director of Product Development, Children's Progress Inc., New York City, NY
2000 – 2007 Editorial Board, MIT Press Journal: Presence, Cambridge, MA
2001 – 2010 Research Affiliate, Massachusetts Institute of Technology / RLE, Cambridge, MA
2002 – present Chief Technology Officer, Corpora Systems Inc., Malden, MA
2002 – present Principal Research Scientist, Sensimetrics Corp., Malden, MA

Other Experience and Professional Memberships

Member of Sigma Xi, New York Academy of Sciences, IEEE, Sigma Pi Sigma physics honor society.

Chronological peer-reviewed publications & patents

Wiegand, T.E., N. Graham, & D.C. Hood, Predicting Stimulus Onset Asynchrony Effects with a Merged Model of Light Adaptation Dynamics. Investigative Ophthalmology and Visual Science, supplement 34(4 1992).
Chase, V.M., T.E.Wiegand, D.C. Hood, & N. Graham, Exploring the Dynamics of Light Adaptation Using a Sinusoidally Modulated Background and a Probe. Investigative Ophthalmology and Visual Science, supplement 34(4 1992).
Wiegand, T.E., D.C. Hood, & N. Graham, Light Adaptation Dynamics: Some Psychophysical Data and Some Improvements to a Model. Investigative Ophthalmology and Visual Science, supplement 33(4 1992): 1258.
Wiegand, T.E.v., D.C. Hood, & N. Graham. Testing a Computational Model of Light-adaptation Dynamics. Vision Research, 35(21 1995): 3037-3051.
Hood, D.C., Graham, N., von Wiegand, T.E., & Chase, V.M. Probed-Sinewave Paradigm: A Test of Models of Light-Adaptation Dynamics. Vision Research, 37 (9 1997):1177-1191.
Koh, G., vonWiegand, T.E., Garnett, G., Durlach, N.I.,& Shinn-Cunningham, B. Use of Virtual Environments for Acquiring Configurational Knowledge about Specific Spaces. I. Preliminary Experiment. Presence: Teleoperators and Virtual Environments, 8(6 1999): 632-656.
Wiegand, T.E.v., Schloerb, D.W., Sachtler, W., & Durlach, N.I. Virtual Workbench Near-Field Virtual Environment System with Applications. Presence: Teleoperators and Virtual Environments, 8(5 1999): 492-519.
Durlach, N., Allen, G., Darken, R., Garnett, R., Loomis, J., Templeman, J.,& vonWiegand, T. Virtual Environments and the Enhancement of Spatial Behavior: A Proposed Research Agenda. Presence: Teleoperators and Virtual Environments, 9(6 2000).
Madden, S., & vonWiegand, T.E. TOADS: A Two-Dimensional Open-Ended Architectural Database System. Presence: Teleoperators and Virtual Environments, 10(2 2000):175-192.
Wiegand, T.E.v.,& Pfautz, J.D. A simple physiological monitoring suite for Virtual Environment Research. Presence-Connect, 1(9 2001).
Wiegand, T.E.v., & Brooks, A. FootStepper: an effort-based locomotion interface. Presence-Connect, 1(9 2001).
Wiegand, T.E.v.,& Pfautz, J.D. The "Hand of Death," a distributed haptic interface for signaling exposure to virtual enemy fire. Presence-Connect, 1(10 2001).
Wiegand, T.E.v. & Pfautz, J.D. "Distributed Haptic Interface System and Method." U.S. Patent 7,082,570, July 25, 2006.
Wiegand, T.E.v. "Conversation Assistant for Noisy Environments." U.S. Patent 8,218,785, July 10, 2012.