

Janet L. Shucard, Ph.D.

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PERSONAL

Mailing Address: (home) 40 Dan Troy Drive, Williamsville, NY 14221
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EDUCATION

1995 Ph.D. University at Buffalo, State University of New York, Buffalo, NY
APA accredited Clinical Psychology Program

1993 – 1994 Veterans Administration Hospital, Buffalo, NY
APA accredited Clinical Internship

1976 Metropolitan State College, Denver, CO. Teaching Certification

1972 B.A. University of Denver, Denver, CO. Major: Psychology

LICENSING

Licensed Clinical Psychologist in New York State, #012942

CURRENT AND PREVIOUS POSITIONS

2011 – present Associate Professor of Clinical Neurology, University at Buffalo, School of
Medicine and Biomedical Sciences

2008 – 2011 Assistant Professor of Clinical Neurology, University at Buffalo, School of
Medicine and Biomedical Sciences

1998 – 2008 Assistant Professor of Neurology, University at Buffalo, School of Medicine and
Biomedical Sciences

1997 - present Associate Director, Division of Cognitive and Behavioral Neurosciences, Dept. of
Neurology, University at Buffalo

1997 - present Head of the Department of Neurology Medical Psychotherapy Service, University
at Buffalo.

2009 – present Center for Brain and Behavior Informatics. Faculty of funded UB2020 Center

2003 – present Senior Member of the Graduate Faculty, University at Buffalo

1999 – present Adjunct Associate Professor, Department of Counseling and Educational
Psychology, University at Buffalo

2004 – 2007 Head of the Insomnia and Behavioral Sleep Medicine Service, Department of
Neurology, University at Buffalo

- 1998 – 2004** Head of Practicum Training Program in Medical Psychology/ Neuropsychology, Department of Neurology, University at Buffalo, for Counseling Psychology graduate students
- 1996 - 1997** Research Assistant Professor, Division of Developmental and Behavioral Neurosciences, Department of Neurology, University at Buffalo
- 1995 - 1997** Clinical Psychologist, Community Mental Health Center, Outpatient Clinic, Buffalo General Hospital, Buffalo, NY
- 1985 - 1995** Instructor, Division of Developmental & Behavioral Neurosciences, Department of Neurology, University at Buffalo
- 1972 - 1985** Researcher and Supervisor of Human Neurophysiology Laboratory: Univ. of Colorado and National Jewish Hospital and Research Center, Brain Sciences Laboratories, Department of Pediatrics and Psychiatry, Denver, CO

GRANTS

- Under Review **ERP Variability, Quantitative MRI, and Cognitive Function in NPSLE** (Co-PI) Lupus Foundation of America
- 2011 **Anti-Phospholipid Antibodies and C-Reactive Protein as Biomarkers of Cognitive Deficits and Microscopic White and Gray Matter Brain Damage in Systemic Lupus Erythematosus. Jog for the Jake Award** (Principal Investigator, total award \$12,000).
- 2006-2011 **Neurological indices of CNS involvement in “Non-CNS” SLE. NIH R01** (Principal Investigator, total award \$1,228,548).
- 2007-2008 **Associations between Posttraumatic Stress Symptoms, Brain Function, and Brain Structure in Police Officers: A Pilot fMRI Study.** Supplemental award NIOSH (Co-Investigator, \$13,000).
- 2007-2009 **Single-Trial Latency Variability of the ERP as an Index of Cognitive Neural Efficiency in MS.** (Co-Principal Investigator). National Multiple Sclerosis Society. (\$44,000).
- 2006 **Neurological Indices of CNS Involvement in SLE.** James H. Cummings Foundation (Co-Principal Investigator, total award \$179,267)
- 2002–2004 **Electrophysiological Measures of Processing Speed and Working Memory Deficits in Multiple Sclerosis** (Principal Investigator). National Multiple Sclerosis Society. (\$36,000).
- 2003-2004 **Electrophysiological and Neuropsychological Indices of Gender Differences in Verbal and Spatial Working Memory in Children,** (Co-PI). From IREWG (6/1/2003-6/1/2004) (\$3,000).
- 1996-1999 **Neurocognitive Indices of Attention in PTSD.** NIH RO3 (Principal Investigator; co-investigators H. Szymansky, M. Morphy) (total award \$152,000).
- 1998-2001 **WNY Systemic Autoimmune Disease Center: Neurocognitive Deficits in SLE,** Oishei Foundation, (PI - J. Ambrus, Jr., J. Shucard, & D. Shucard, Co-investigators). (\$120,000 to our laboratory).
- 1998-2000 **Functional Neuroimaging of Auditory Attention,** James H. Cummings Foundation (R. Benedict, P.I.; A. Lockwood, J. Shucard, D. Shucard, Co-investigators)
- 1991-1994 **Prenatal Sex Hormones in Neurocognitive Development** NIH R01 (Co-Principal Investigator).

1982 - 1986 **Electrophysiological Studies of Brainstem, Cortical and Cognitive Development in Low Birth-weight Infants.** (Co-Investigator). March of Dimes Birth Defects Foundation.

RESEARCH INTERESTS

Overall interest in cognitive neuroscience and event-related brain potentials. Specific areas include: 1) electrophysiological, neuropsychological, and neurobiological aspects of attention and executive function in Post-traumatic Stress Disorder; 2) electrophysiological, neuropsychological, and biological markers of working memory/processing speed deficits in Systemic Lupus Erythematosus and Multiple Sclerosis; 3) the relationships among cognitive function, psychological function, and quality of life in Systemic Lupus Erythematosus and Multiple Sclerosis; and 4) neuropsychological and electrophysiological correlates of sex-differences in spatial and verbal abilities in children and adults.

REVIEWER

Developmental Psychology
Developmental Neuropsychology
International Journal of Psychophysiology
Biological Psychology
Clinical Neurophysiology
Neuropsychobiology
Journal of Cognitive Neuroscience

UNIVERSITY TEACHING and INVITED LECTURES (local)

- 2000 – present** **Undergraduate Research Mentor:** research training of undergraduate students from Psychology and Biomedical Sciences: 3 – 5 students/year. Involves 12 – 15 hours per week of intensive research training for a minimum of one year (2 semesters). See attached Addendum.
- 2007 – present** **Neurosciences graduate course (NRS 521).** Lecture series on Attention.
- 2008 – 2010** **Introduction to Research Design and Statistical Analysis.** Course for Department of Neurology medical residents, fellows, and staff.
- 1995 - present** **Research training** of predoctoral students, postdoctoral fellows, medical students, and neurology residents in research design and methods, statistics, electrophysiological and behavioral techniques/thesis supervision, clinical psychological assessment and therapy techniques. (Department of Neurology, University at Buffalo)
- 1/31/2008** **Neurology Grand Rounds.** The Neurobiology of Attention in Posttraumatic Stress Disorder.
- 2007** **Introduction to Research Design and Statistical Analysis.** Eight week course to Department of Neurology medical residents, fellows, and staff.
- 3/2006** **Invited Speaker:** “Cognitive Dysfunction in Systemic Lupus Erythematosus.” Lupus Alliance of Western New York Annual Workshop
- 2005 – present** **University Sleep Medicine Fellowship:** Training of sleep medicine fellows (Depts of Neurology and Pulmonary Medicine) in the assessment and cognitive behavioral treatment of insomnia.
- 1998 – 2009** **Neuropsychology Residency Training Program (APPCN) primary faculty:** Research training of Neuropsychology residents.
- 1998 - 2006** **Practicum Training Program** in Medical Psychology/Neuropsychology. Clinical training of predoctoral students (Department of Counseling and Educational Psychology) in psychological assessment, medical psychotherapy, psychological management of patients with chronic neurological and medical illness, and assessment and treatment of insomnia.

- 2/2003** **Invited Speaker:** Clinical Psychology Brown-bag lecture. “Neuropsychology and Neurobiology of Post-traumatic Stress Disorder.” Department of Psychology, University at Buffalo.
- 4/2000** **Sleep Medicine Lecture Series,** Insomnia: Diagnostic Aspects and Treatment Modalities, University at Buffalo
- 2000 - 2001** **Neuroscience Seminar,** Research Methods and Statistics lectures to Neurology Residents, University at Buffalo
- 9/1998** **Invited Speaker:** “Families coping with Multiple Sclerosis.” Fall workshop for the National Multiple Sclerosis Society, Western New York Chapter.
- 4/1998** **Invited Speaker:** “Self-esteem and chronic illness.” Center for Women with Disability, Focus Group Lecture, Western NY Neuroscience Center
- 1990 to 1991** **Recitation Instructor/Teaching Assistant** Psychological Statistics (Department of Psychology, University at Buffalo). Professor: Dean Pruitt, Ph.D.
- 1990** **Teaching Assistant** for undergraduate class in Introduction to Psychology (Department of Psychology, University at Buffalo). Professor: Kenneth Kurtz, Ph.D.

INVITED LECTURES and PLATFORM PRESENTATIONS: (National and International)

- Behavioral and Electrophysiological Correlates of PTSD Symptomatology. Invited Teleconference presentation to Eli Lilly, April, 2010.
- New Approaches to PASAT Scoring and Assessment of Working Memory in Multiple Sclerosis. Invited presentation at *Controversies in Neuropsychology of Multiple Sclerosis Symposium*. Sero Symposia International. Boston, MA., Oct. 2005.
- Event-related potential measures during working memory relate to neuropsychological dysfunction and brain atrophy in Multiple Sclerosis. Platform presentation at the Society for Neuroscience meeting, October, 2004.
- Posttraumatic stress disorder and event-related potentials during auditory and visual sustained attention. Symposium presentation. Society for Psychophysiological Research meetings, October, 2000.
- Event-related potentials during functional neuroimaging of auditory attention. Platform presentation at The Society for Neuroscience meeting, October, 1997.

DISSERTATION and MASTERS THESIS COMMITTEES

- 5/2001** **Hope Klopchin, Ph.D.** Department of Counseling and Educational Psychology, University at Buffalo
Dissertation: *Etiological Factors in the Development of Depression in Systemic Lupus Erythematosus.*
- 6/2002** **Marisol Hanley, Ph.D.** Department of Counseling and Educational Psychology, University at Buffalo
Dissertation: *A Predictive Model of Health-Related Quality of Life in Obstructive Sleep Apnea Patients.*
- 5/2005** **Danielle C. McCabe, Ph.D.** Department of Psychology, University at Buffalo
Dissertation: *The Effects of Stimulus Deviance and Novelty on Cerebral Lateralization in Event-Related Potentials During Auditory and Visual Continuous Performance Tasks.*
- 12/2006** **Carolyn Brueggemeier, MS.** Department of Psychology, University at Buffalo
Masters Thesis: *An Event-Related Potential Study of Sustained and Focused Attention in PTSD.*

- 5/2006 **Helene Cook, MS.** Department of Psychology, University at Buffalo
Masters Thesis: *Gender Differences in Obstructive Sleep Apnea: The Relationship Between the Epworth Sleepiness Scale and Objective Measures of Sleep-Related Respiratory Disturbances.*
- 3/2007 **Ravi Pande, MS., MD.** Interdisciplinary Masters Program, University at Buffalo
Masters Thesis: *Determinants of CPAP Compliance in Newly Diagnosed Obstructive Sleep Apnea Patients.*
- 5/2009 **Trevor Chichelli, MS.** Neuroscience Program, University at Buffalo
Masters Thesis: *ERP P3 amplitude change over trials during the performance of a working memory n-back task in older versus younger adults.*
- 5/2010 **Thomas Covey, MS.** Neuroscience Program, University at Buffalo
Masters Thesis: *Behavioral Indices of Information Processing Speed, Neural Efficiency, and Working Memory and Their Relationship With Quantitative MRI in MS.*
- 5/2013 Victoria Kordovski, MS. Psychology, University at Buffalo
- 5/2013 Yina Ma, MS. Neuroscience Program, University at Buffalo

PROFESSIONAL SOCIETIES

American Psychological Association
Society for Neuroscience
Society for Psychophysiological Research

UNIVERSITY COMMITTEES

University at Buffalo Faculty Council Member: June 2007 – May 2009

UB 2020 Initiative, Aging and Chronic Disease Focus Group. Invited participant.

The Women's Health Collaborative Research Group, Steering Committee Member, Department of Neurology, 1997 to 2000.

GENERAL COMMITTEES

Medical Ethics Committee, Kaleida Health, University at Buffalo Center for Clinical Ethics and Humanities in Health Care. 2002 to present.

Turskey Award Review Committee, 44th annual meeting, Society for Psychophysiological Research, 2004.
Society for Psychophysiological Research Program Committee, for 42nd annual meeting, 2002.

Medical Ethics Committee, Buffalo General Hospital, 1997- 2002.

COMMUNITY SERVICE

Medical Ethics Consultant, Buffalo General Hospital. Serve as a psychologist on medical ethics consultant team. 2000 – present.

Caring Committee member, Temple Beth Am, June 2009 – present

Campaign treasurer for Candidate for Amherst Town Clerk. July 2011 – Feb. 2012.

Amherst Democratic Committee, elected member, July 2004 to present

Social Action Committee Co-chair, Temple Beth Am, April 2003 - present

Clinical Advisory Committee member for The National Multiple Sclerosis Society, Western New York

Chapter. August 1998 to present.

Representative of the Joint Steering Committee for Public Policy on Capitol Hill Day, Washington D.C. July 14, 2004. Met with Congressional Representatives to discuss funding for NIH.

Mentor Programs. Mentor for high school students beginning Sept. 1999.
Minority Student Summer Fellowship Program. University at Buffalo, 2001.

Co-Chairperson: New York State Task Force for the Prevention of Lead Poisoning in Children 1987-1990.

Board Member for the Western New York Task Force on Prevention of Mental Retardation and Developmental Disabilities. 1987 - 1991.

PUBLICATIONS (PEER REVIEWED)

- Shucard, D.W., **Shucard, J.L.**, & Thomas, D.G. (1977). Auditory evoked potentials as probes of hemispheric differences in cognitive processing. *Science*, *197*, 1295-1298.
- Shucard, D.W., & **Shucard, J.L.** (1978). Stimulus intensity expectation and visual evoked brain potentials. *Psychophysiology*, *15*, 522-530.
- Thomas D., Campos, J., Shucard, D.W., Ramsay, D., & **Shucard J.L.** (1981). Semantic comprehension in infancy: A signal detection analysis. *Child Development*, *52*, 708-803.
- Shucard, J.L.**, Shucard D.W., Cummins K.R., & Campos, J.J. (1981). Auditory evoked potentials and sex-related differences in brain development. *Brain and Language*, *13*, 91-102.
- Shucard, D.W., Cummins K.R., Thomas D.G., & **Shucard, J.L.** (1981). Evoked potentials to auditory probes as indices of cerebral specialization of function - replication and extension. *EEG and Clinical Neurophysiology*, *52*, 389-393.
- Shucard, D.W., **Shucard, J.L.**, Campos, J.J., & Salamy, J.G. (1982). Some issues pertaining to auditory evoked potentials and sex-related differences in brain development. *Brain and Language*, *16*, 342-347.
- Shucard, D.W., **Shucard, J.L.**, & Thomas, D.G. (1984). The development of cerebral specialization in infants: Electrophysiological and behavioral studies. In: R.N. Emde and R.J. Harmon (Eds), *Continuities and Discontinuities in Development*. Plenum Publishing Corp., New York, *54*, 293-314.
- Shucard, D.W., Spector, S.L., Euwer, R.L., Cummins, K.R., **Shucard, J.L.**, & Friedman, A. (1985). Central nervous system effects of anti-asthma medication - An EEG study. *Annals of Allergy*, *68*, 303-310.
- Shucard, D.W., **Shucard, J.L.**, & Thomas, D.G. (1987). Auditory event related potentials in waking infants and adults: A developmental perspective. *EEG and Clinical Neurophysiology*. *68*, 303-310.
- Shucard, D.W., **Shucard, J.L.**, & Thomas, D.G. (1987). Sex differences in the patterns of scalp-recorded electrophysiological activity in infancy - possible implications for language development. Philips, S, Steele, S., & Tanz, C. (Eds.), *Language, Sex and Gender in Comparative Perspective*. Cambridge University Press, 278-295.
- Shucard, D.W., **Shucard, J.L.**, & Thomas, D.G. (1988). Neurophysiological studies of human cognitive development in premature infants: An approach to the study of maturational brain processes. *Neurotoxicology*, *9*, 299-316.

- Shucard, J.L.**, Shucard, D.W., Patterson, R., & Guthrie, R. (1988). Prenatal lead exposure and its potential significance for developmental disabilities: A preliminary study of umbilical cord blood lead levels. *Neurotoxicology*, *9*, 317-326.
- Thomas, D.G., Shucard, D.W., **Shucard, J.L.**, & Campos, J.L. (1989). The effects of stimulus and laboratory experience on auditory evoked potentials in infancy. *Developmental Neuropsychology*, *5*, 25-32.
- Shucard, J.L.**, & Shucard, D.W. (1990). Auditory evoked potentials and hand preference in 6-month-old infants: Possible gender related differences in cerebral organization. *Developmental Psychology*, *26*, 923-930.
- Shucard, D.W., **Shucard, J.L.**, Clopper, R.R., & Schachter, M. (1992). Electrophysiological and neuropsychological indices of cognitive processing deficits in Turner Syndrome. *Developmental Neuropsychology*, *8*, 299-323.
- Benedict, R. H., Lockwood, A. H., Shucard, D.W., & **Shucard, J.L.** (1998). Functional neuroimaging of sustained attention in the auditory modality. *NeuroReport*, *9*, 121-126.
- Shafer, V.L., Shucard, D.W., **Shucard, J.L.**, & Gerken, L.A. (1998). An electrophysiological study of infants' sensitivity to the sound patterns of English speech. *Journal of Speech, Language, and Hearing Research*, *41*, 874-886.
- Everhart, D. E., **Shucard, J. L.**, Quatrin, T., & Shucard, D.W. (2001). Sex-related differences in ERPs, face recognition, and facial affect processing in prepubertal children. *Neuropsychology*, *15*, 329-341.
- Tekok-Kilic, A., **Shucard, J.L.**, & Shucard, D. W. (2001). Stimulus Modality and Go/NoGo effects on P3 during parallel visual and auditory continuous performance tasks. *Psychophysiology*, *38*, 578-589.
- Benedict, R.H.B, Shucard, D.W., Santa Maria, M.P., **Shucard, J.L.**, Abara, J.P., Coad, M., Wack, D., Sawusch, J., Lockwood. A.H. (2002). Covert Auditory Attention Generates Right Anterior Cingulate Activity in Humans. *Journal of Cognitive Neuroscience*, *14*, 637-645.
- Shucard, J.L.**, Parrish, J., Shucard, D.W., McCabe, D.C., & Benedict, R.H.B., Ambrus, J. (2004). Working memory and processing speed deficits in Systemic Lupus Erythematosus as measured by the Paced Auditory Serial Addition Test. *Journal of the International Neuropsychological Society*, *10*, 35-45.
- Everhart, E. E., **Shucard, J.L.**, Quatrin, T., & Shucard, D.W. (2004). Event-related potential differences during face recognition among prepubertal children and Turner Syndrome girls. *Psychoneuroendocrinology*, *29*, 1260-1271.
- Shucard, D.W., Abara, J.P., McCabe, D.C., Benedict, R.H.B., & **Shucard, J.L.** (2004). The effects of covert attention and stimulus complexity on the P3 response during an auditory continuous performance task. *International Journal of Psychophysiology*, *54*, 221-230.
- Thoman, J.E., Duffner, P.K., **Shucard, J.L.** (2004). Do serum sodium levels predict febrile seizure recurrence within 24-hours? *Pediatric Neurology*, *31*, 342-344.

- Parmenter, B.A., Shucard, J.L., Benedict, R.H.B., & Shucard, D.W. (2006). Working memory deficits in multiple sclerosis: Comparison between the n-back task and the Paced Auditory Serial Addition Test. Journal of the International Neuropsychological Society, 12, 677-687.*
- Shucard, J.L.,** Gaines, J., Ambrus, J., & Shucard, D.W. (2007). C-reactive protein and cognitive deficits in Systemic Lupus Erythematosus. *Cognitive and Behavioral Neurology, 20, 31-37.*
- Parmenter, B.A., Shucard, J.L., Shucard, D.W. (2007). Information processing deficits in Multiple Sclerosis: a matter of complexity. Journal of the International Neuropsychological Society, 13, 417-423.*
- Benedict, R.H.B., **Shucard, J.L.,** Zivadinov, R., & Shucard, D.W. (2008). Neuropsychological impairment in systemic lupus erythematosus: A comparison with multiple sclerosis. *Neuropsychology Review, 18, 149-166.*
- Shucard, J.L. & McCabe, D.C. & Szymanski, H. (2008). An Event-related potential study of attention deficits in posttraumatic stress disorder during auditory and visual go/nogo continuous performance tasks. Biological Psychology, 79, 223-233.**
- Shucard, J.L.,** Tekok-Kilic, A., Shiels, K., & Shucard, D.W. (2009) Stage and load effects on ERP topography during verbal and spatial working memory. *Brain Research, 1254, 49-62.*
- Shucard, J.L.,** Lee, W.H., Safford, A. S., & Shucard, D.W. (2011). The relationship between processing speed and working memory demand in Systemic Lupus Erythematosus: Evidence from a visual n-back task. *Neuropsychology, 25, 45-52.*
- Covey, T.J., Zivadinov, R., Shucard, J.L., Shucard, D.W. (2011). Information processing speed, neural efficiency, and working memory performance in multiple sclerosis: Differential relationships with structural imaging. Journal of Clinical and Experimental Neuropsychology, 33, 1129-1145.*
- Shucard, J.L.,** Cox, J., Shucard, D.W., Fetter, H., Chung, C., Ramasamy, D., & Violanti, J. (2012). Symptoms of posttraumatic stress disorder are related to structural MRI and behavioral measures of affective stimulus processing in police officers. *Psychiatry Research: Neuroimaging, 204, 25-31.*
- Covey, T.J., Shucard, J.L., Shucard, D.W., Stegen, S., Benedict, R.H.B., (2012). Comparison of neuropsychological impairment and vocational outcomes in Systemic Lupus Erythematosus and Multiple Sclerosis patients. Journal of the International Neuropsychological Society, 18: 1-11.*
- Covey, T.J., Shucard, J.L., Violanti, J., Lee, J., Shucard, D.W. (2013). The effects of exposure to traumatic stressors on inhibitory control in police officers: A dense electrode array study using a Go/NoGo continuous performance task. International Journal of Psychophysiology. In Press.*
- Shucard, J.L.,** Shucard, D.W. (2013). Electrophysiological and neuroimaging studies of cognitive control: Introduction to special issue. *International Journal of Psychophysiology. In Press.*
- Zivadinov, R. **Shucard, J.L.,** Hussein, S. Durfee, J., Cox, J.L., Bergsland, N., Dwyer, M., Benedict, R.H.B., Ambrus, J., Shucard, D.W. (2013). Multimodal imaging in systemic lupus erythematosus patients with diffuse neuropsychiatric involvement. *Lupus. In Press.*

(Italics denote postdoctoral fellow, graduate student, or medical student, under my supervision)

BOOKS AND EDITED JOURNALS

J.L. Shucard and D.W. Shucard, Co-Editors (2013). *Electrophysiological and Neuroimaging Studies of Cognitive Control: Evidence from Go/NoGo and Other Executive Function Tasks*. Special Issue of the *International Journal of Psychophysiology*. In Press.

MANUSCRIPTS IN PREPARATION FOR SUBMISSION

Shucard, J.L., Zivadinov, R., Benedict, R.H.B., Shucard, D.W. MRI measures of microscopic gray and white matter and working memory deficits in Systemic Lupus Erythematosus.

Shucard, J.L., Hamlin, & Shucard, D.W. Age-related changes in increased activation of the frontal P3 during working memory: a comparison of young and middle aged adults. Manuscript to be submitted to the *Journal of Cognitive Neuroscience*.

Shucard, D.W., Benedict, R., **Shucard, J.L.** The contribution of biological and psychosocial factors to depression in Systemic Lupus Erythematosus. Manuscript to be submitted to *Rheumatology*.

Shucard, J.L., Lee, J., Covey, T.J., Violanti, J., Shucard, D.W. Frontal dysregulation during a Go/NoGo task with ambiguous visual stimuli in police officers exposed to traumatic stressors: a dense electrode array ERP study. Manuscript to be submitted to *Neuroimage*.

PAPERS PRESENTED AND PUBLISHED ABSTRACTS

Shucard, D.W., Spector, S.L., & McCloskey (Shucard), J.L. (1974). Electroencephalography and anti-asthma medication. Clinical Research, 22, 323.

Shucard, D.W., & McCloskey (Shucard), J.L. Effect of suggestion and experience on visual evoked potentials of children with asthma. Presented at Society for Research in Child Development Meetings, Denver, April, 1975.

Shucard, D.W., Shucard, J.L., & Thomas, D.G. The auditory evoked potential and the assessment of cerebral lateralization of cognitive processing. Presented at Society for Psychophysiological Research, San Diego, October, 1976, Psychophysiology, 1977, 14, 91.

Shucard, D.W., Shucard, J.L., & Campos, J. (1978). Auditory evoked responses and "fast habituation" in infants. Invited participant, Conference on Event-Related Potentials in Man, Virginia, April 1977 (Sponsored by the Clinical Research Branch of the NIMH and the Scientific Organizing Committee.) In: E. Callaway, P. Tueting and S.H. Koslow (Eds) Event-Related Brain Potentials in Man. Academic Press, New York, 623.

Shucard, D.W., & Shucard, J.L. Auditory evoked potentials as probes of lateralized information processing in adults and infants. Invited participants, Conference on Event-Related Potentials in Man-Application and Problems, Konstanz, West Germany, August, August, 1978 (Sponsored by NATO). In: D. Lehmann and E. Callaway (Eds) Human Evoked Potentials, Applications and Problems. Plenum Press, New York, London, 1979, 473.

Shucard, D.W., Shucard, J.L. Cummins, K.R., & Thomas, D.G. Information processing and the "two tone probe technique" replication and extension. Presented at Society for Psychophysiological Research Meetings. Madison, WI, 1978. Psychophysiology, 1979, 16, 189.

Shucard, D.W., Shucard, J.L., & Cummins, K.R. Auditory evoked potentials and sex-related differences in brain development. Presented at Society for Research in Child Development Meetings, San Francisco, California, March, 1979. Society for Research in Child Development Abstracts of Individual Papers. 1979, 2, 181.

- Shucard, D.W. & Shucard, J.L. AERP waveform comparisons between waking infants and adults. Presented at the Society for Psychophysiological Research Meetings, October, 1979. Psychophysiology, 1980, 17, 289.
- Thomas, D.G., Shucard, D.W., Shucard, J.L., & Cummins, K.R. Auditory event-related potentials and fast habituation in infants and adults. Paper presented to the International Conference on Infant Studies, New Haven, Connecticut, April, 1980.
- Shucard, D.W., Molfese, D., Thomas, D., & Shucard, J.L. Electrophysiological studies of CNS development in infancy. Symposium presented at Society for Research in Child Development Meetings, Boston, April, 1981. Society for Research in Child Development Abstract of Individual Papers, 1981.
- Shucard, D.W., Spector, S.R., Euwer, R.L., Cummins, K.R., & Shucard, J.L. Central nervous system effects of anti-asthma medication - An EEG study. Presented at the American EEG Society Meetings, Chicago, Illinois, June, 1981. EEG and Clinical Neurophysiology, March, 1982, 53, 29.
- Shucard, D.W., & Shucard, J.L. Sex related differences in brain development as measured by auditory event related potentials. Presented at the Society for Psychophysiological Research Meetings, Washington, DC, October, 1981. Psychophysiology, 1982, 19, 347.
- Shucard, J.L., Shucard, D.W., & Thomas, D.G. Relationships between hand preference and evoked potential asymmetries in 6-month-old infants. Presented at the Developmental Psychobiology Research Group Retreat, Estes Park, Colorado, June, 1982.
- Shucard, D.W., Shucard, J.L., Dean, K.G., & Pennington, B.F. Electrophysiological and neurophysiological indices of visuospatial deficits in Turner Syndrome adults. Presented at the 90th annual meeting of American Psychological Association, Washington, D.C., August, 1982.
- Shucard, J.L., Shucard, D.W., & Thomas, D.G. Relationship between hand preference and evoked potential asymmetries in 6-month-old infants. Presented at the Society for Psychophysiological Research Meetings, Minneapolis, Minn., October, 1982, Psychophysiology, 1982, 19, 585-586.
- Shucard, D.W., & Shucard, J.L. Sex differences in the patterns of scalp-recorded electrophysiological activity in infancy-possible implications for language development. Invited presentation at the Conference on Sex Differences in Language, University of Arizona, Tucson, AZ, January, 1983.
- Thomas, D.G., Shucard, D.W., Shucard, J.L., & Minarick, D.D. Auditory evoked potentials in infancy: effects of stimulus and laboratory experience. Presented at the Society for Psychophysiological Research Meetings, Asilomar, California, September, 1983. Psychophysiology, 1984, 20, 474.
- Shucard, D.W., Shucard, J.L., Thomas, D.G., & Cummins, K.R. The two-tone probe technique: Applications in developmental neuropsychology. In: International Neuropsychological Society Symposium: The Probe Evoked Potentials Paradigm: Rationale and Applications in Neuropsychology. Presented at the 12th annual meeting of the International Neuropsychological Society, Houston, Texas, February, 1984.
- Shucard, D.W., Thomas, D.G., & Shucard, J.L. Auditory evoked response asymmetries in premature infants. The International Conference on Infant Studies, New York, 1984. Infant Behavior and Development, 1984, 7, 331.
- Thomas, D.G., Shucard, D.W., & Shucard, J.L. Auditory evoked potential variability in infancy. Presented at the Society for Research in Child Development Meetings, Toronto, Ontario, Canada, April, 1985.
- Shucard, J.L., & Shucard, D.W. Probe evoked potentials and hemispheric asymmetries during visual discrimination in children. The Eighth International Conference on Event-Related Potentials of the Brain. Stanford, June, 1986.
- Shucard, D.W., Cummins, K.R., & Shucard, J.L. Biobehavioral relationships in dyslexia. Society for Neuroscience Abstracts, 1987, 13, 653. Presented at the Society for Neuroscience, New Orleans, November, 1987.
- Shucard, D.W., & Shucard, J.L. Neurophysiological studies of human cognitive development. Presented at the Fifth International Neurotoxicology Conference. Little Rock, Arkansas, 1987.
- Clopper, R., Schachter, M., Shucard, J., & Shucard, D. (1988). Neuropsychological and electrophysiological

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