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David William Shucard, M.S., Ph.D.
dshucard@buffalo.edu

Personal

Mailing Address: Department of Neurology
Division of Cognitive and Behavioral Neurosciences
The State University of NY School of Medicine and Biomedical Sciences
Sherman Hall, Room 114A
Buffalo, NY 14214

Telephone Numbers: 716-626-5296 (home), 716-868-4046(Cell)
716-829-2099 or 5987 (work)

Education

B.A. University of Colorado, 1962
Distributed major - Zoology, Chemistry, Literature

M.S. Department of Zoology, University of Denver, 1967
Thesis: The Effects of Unilateral Vagotomy on the Heart and Respiratory Rates
of the Albino Rat.

Ph.D. Department of Psychology, University of Denver, 1969
Dissertation: Relationship Among Measures of the Cortical Evoked Potential and
Abilities Comprising Human Intelligence.
Major Professor: Dr. John L. Horn

Postdoctoral Education: 1969 - 1971
NIMH Postdoctoral Fellow
University of California
Langley Porter Neuropsychiatric Institute and
Stanford University

Board Certification Diplomat, American Board of Sleep Medicine

Present Position and Academic Appointments

Founder/Director, Division of Developmental (Now Cognitive) and Behavioral Neurosciences, Department of Neurology,
The State University of NY at Buffalo School of Medicine and Biomedical Sciences

Professor, Departments of Neurology and Pediatrics, The State University of NY at Buffalo School of Medicine and
Biomedical Sciences, Buffalo, NY
(August 1985 - present)

Professor, Department of Psychology, State University of NY at Buffalo, Buffalo, NY (September 1989 - present)

Associate Center Director of the Sleep Disorder Center of Western NY, Millard Fillmore Hospital, Buffalo, NY
(December 1998 - 2008).

Founder/Director, Neurodiagnostic Laboratory, Department of Neurology, Buffalo General Hospital, Buffalo, NY
(August 1985 - 2005)

Director, Center for the Study of the Biobehavioral and Social Aspects of Health, State University of NY at Buffalo,
Buffalo, NY (1992 -1996)

Founder/Director, Brain Sciences Laboratories, Department of Pediatrics, National Jewish Hospital and Research Center,
Denver, CO (September 1976 - June 30, 1985)

Professor, Department of Psychiatry, University of Colorado School of Medicine, Denver, CO
(March 1984 - June 30, 1985)

Associate Professor, Department of Psychiatry, University of Colorado School of Medicine, Denver, CO
(January 1978 - March 1984)

Adjunct Associate Professor, Department of Psychology, University of Denver, Denver, CO
(February 1979 - June 30, 1985)

Teaching Faculty, School of Professional Psychology, University of Denver, Denver, CO (1979 - June 1985)

Staff, Department of Behavioral Science, National Jewish Hospital and Research Center, Denver, CO (September 1971 - 1976)

Assistant Professor, Department of Psychiatry, University of Colorado School of Medicine, Denver, CO (September 1971 - 1976)

Adjunct Assistant Professor, Department of Psychology, University of Denver, Denver, CO (February 1975 -1979)

Teaching and Training

Topics of courses taught and/or lectures for courses

- (a) General experimental psychology
- (b) Psychophysiology
- (c) Learning
- (d) General Statistics
- (e) Neuroanatomy and neurophysiology
- (f) Clinical electroencephalography and neurophysiology
- (g) Neuropsychology
- (h) Neurolinguistics
- (i) Developmental Neurobiology

Supervisor and major professor of undergraduate honors students, medical students, medical residents, masters and doctoral graduate students and postdoctoral fellows (M.D.s and Ph.D.s) from a number of disciplines that include Speech Pathology, Professional and Clinical Psychology, Experimental Psychology, Linguistics, Behavioral Neurosciences, Neuroscience.

Currently in laboratory: 3 Undergrads (1 visiting from UB Singapore), 5 Masters (3 Psych, 1 Neuroscience, 1 Counseling and Ed Psych), 1 Ph.D. (Neuroscience).

Clinical Duties

Founded and directed the Brain Sciences Laboratories, Department of Pediatrics at National Jewish Hospital and Research Center (NJHRC). Two laboratories that specialized in clinical work and were part of the Brain Sciences Program were the (1) Neuropsychology Laboratory and (2) EEG and Human Neurophysiology Laboratory.

Duties included:

- (1) Interpretation of both pediatric and adult EEGs
- (2) Consultation with patient's primary care physician and other health care professionals on central nervous system effects due to aspects of either the patient's condition or therapy
- (3) Special clinical studies, such as the assessment of CNS drug toxicity and evaluation of brain stem auditory pathway integrity
- (4) Clinical sleep evaluations

Beginning September 1985, founded and directed the Neurodiagnostic Laboratory, Department of Neurology, Buffalo General Hospital. Clinical services include:

- (1) Polysomnography (Sleep Medicine)
- (2) EEG
- (3) Evoked Potentials
- (4) Ambulatory EEG monitoring
- (5) Split screen monitoring of seizure patients
- (6) Neuropsychology
- (7) Intraoperative Monitoring

Also, established the Sleep Laboratory at Children's Hospital of Buffalo. Served as Research Director of that laboratory. Primary clinical responsibilities included: evaluation of patients for disorders of sleep and wakefulness, quality assurance and interpretation of findings from all night sleep studies and multiple sleep latency tests, etc. Appointed Associate Director of Sleep Disorder Center of Western New York, an 8 bed sleep facility. Responsibilities include interpretation of nocturnal polysomnograms, Multiple Sleep Latency Tests, etc. and making treatment recommendations based on these diagnostic tests.

Administrative Experience

Director of the Brain Sciences laboratories - responsibilities included:

- (1) Administering the program's budgets which involved both hospital and grant funds
- (2) Interacting with the department chairman and administrators on department and hospital policy
- (3) Planning and designing laboratory facilities
- (4) Coordinating all research projects and clinical services of the program
- (5) Hiring and managing the program's personnel
- (6) Establishing long range goals and directions of the program

Founder and Director of The Division of Developmental and Behavioral Neurosciences and The Neurodiagnostic Laboratory (see above), Department of Neurology, SUNY at Buffalo School of Medicine and Buffalo General Hospital in 1985. Administrative responsibilities are similar to 1-6 above, and included:

- (7) Development and Administration of Intraoperative Monitoring
- (8) Interfacing of electrophysiological methodologies with brain imaging technology at SUNY PET Center

Director of the Center for the Study of Biobehavioral and Social Aspects of Health, one of the 17 University supported centers of excellence for multidisciplinary research activities, April 1992 - 1996.

Honors and Professional Societies

NASA Predoctoral Fellow, University of Denver, 1965 - 1967

NIMH Postdoctoral Fellowship, University of California Medical Center and Langley Porter Neuropsychiatric Institute, San Francisco, 1969 - 1971

Phi Sigma Society (National Biological Honor Society)

Sigma Xi (Member) (National Scientific Honor Society)

Psi Chi (Psychological Honor Society)-President of Denver Chapter, 1967 - 1968

Fellow: American Psychological Association, Division 6: Behavioral Neuroscience and Comparative Psychology (1997 - present)

Fellow: American Psychological Association, Division 7: Developmental Psychology (1999 - present)

Fellow: American Psychological Association, Division 40: Clinical Neuropsychology (1997- present)

Society for Psychophysiological Research (Member)

American Institute for Biological Sciences (Member)

American Association for the Advancement of Science (Member)

American Electroencephalographic Society (Member)

American Epilepsy Society (Member)

Fellow: American Academy of Sleep Medicine (formerly American Sleep Disorders Association)

Society for Neuroscience (Member)

British Brain Research Association (Honorary Member)

Clinical Sleep Society (Member)

European Brain and Behavior Society (Honorary Member)

Developmental Psychobiology Research Group, University of Colorado School of Medicine (Member, 1972-1985)

International Neuropsychological Society (Member)

New York Academy of Sciences (Member)

Research Interests

Overall research interest is in the cognitive and behavioral neurosciences and the relationships between behavioral and biological variables, with an emphasis on the neurophysiology of the brain as the dependent measure: study of the neurophysiology associated with cognitive processes, such as working memory and attention; information processing; intellectual abilities; learning disorders; intellectual/cognitive development; language development; psychological disorders; drug effects; and immunological reactions. This research focuses on the study of the nervous systems of both animals and humans. Electrophysiological, behavioral, neuropsychological, immunological, biochemical, and neuroimaging techniques are used in this work. Some of the research involves the development of new techniques and paradigms in cognitive/behavioral neuroscience and applying these to clinical problems. Current clinical projects address cognitive disturbances in Multiple Sclerosis, Systemic Lupus Erythematosus, and PTSD.

Committees

Society for Psychophysiological Research - Chairman, Membership Committee (1980 - 1983), Membership Committee (1979 - 1980)

Animal Care Committee - NJHRC (1976 - 1984)

Education Committee - NJHRC (1976 - 1978)

Biomedical Research Support Committee - NJHRC (1976 - 1984)

Developmental Psychobiology Research Group Planning Committee, University of Colorado School of Medicine (1979 - 1980)

Developmental Psychobiology Research Group Executive Committee, University of Colorado School of Medicine (1980 - 1983)

MacArthur Foundation Network for Transition from Infancy to Early Childhood, Colorado Node Executive Committee (1983 - 1985)

Gerontology Long Range Planning Committee, University of Colorado School of Medicine (1984)

Neuroscience Planning Committee, Co-Chairman, SUNYAB School of Medicine (1987 - 1989)

Medical Computing Committee, SUNYAB School of Medicine (1986 - 1989)

Institutional Animal Care and Use Committee, SUNY at Buffalo (1991-1993)

Institutional Review Board, Buffalo General Hospital (1987 - 1999)

Buswell Fellowship Committee, SUNY at Buffalo School of Medicine and Biomedical Sciences (1993 - 1999)

Hospital Research Committee, Buffalo General Hospital (1994 - 1999)

Advisory Committee on Academic Personnel, Department of Neurology, SUNYAB School of Medicine (1986 - present)

Research Committee, Department of Neurology, SUNYAB School of Medicine (1986 - 2000)

Search Committee, Department of Neurology, SUNYAB School of Medicine (1986 - 2000)

Advisory Committee, Center for the Study of Behavioral and Social Aspects of Health, SUNYAB (1987 - 1992)

Budget Committee, Faculty Council, SUNY at Buffalo (1988 - 1990)

Steering Committee - GRI in Cognitive and Linguistic Sciences (1988 - 1989)

Scientific Advisory Committee for the Research Institute on Alcoholism (1987 - 1991)

Steering Committee, Center for Cognitive Science, SUNY at Buffalo (1989 - 1994)

Cognitive Science Search Committee, SUNY at Buffalo (1989 - 1990)

Cognitive Psychology Search Committee, Dept. of Psychology, SUNY at Buffalo (1989 - 1990)

Neuroscience Task Force Subcommittee on Research, SUNY at Buffalo (1990)

Neuroscience Planning Committee (1987 - 2000)

Medical Ethics Committee, Buffalo General Hospital (1994 - present)

Medical Ethics Committee, Kaleida Health (2001-present)

Joint Center/University Clinical Education Committee, SUNY at Buffalo (1994 - 2000)

Center for Clinical Ethics and Humanities Committee, SUNY at Buffalo (1994 - 2000)

Doctoral Committees for Departments of Linguistics, Psychology, and Neurosciences (ongoing)

Promotions Committee, Department of Neurology, SUNYAB School of Medicine (1996-present)

Steering Committee, Women's health Collaborative Research Group (1998 - 2000)

Chairman, Medical Ethics Database Sub-Committee, Buffalo General Hospital (1999 - 2000)

Steering Committee, Interdisciplinary Graduate Program in Biomedical Neurosciences, SUNY at Buffalo School of Medicine and Biomedical Sciences (1999-present)

Graduate Admissions Committee, Interdisciplinary Graduate Program in Biomedical Neurosciences, SUNY at Buffalo School of Medicine (1999-present)

Consultant to the Civil Aeromedical Institute (CAMI) of the Federal Aviation Administration, Oklahoma City, OK (June 1999-present)

Faculty Senate, SUNY at Buffalo, Buffalo NY (2001- June 2003; 2008-present)

Advisory Committee, Electroneurodiagnostic Technology, Niagara County Community College (2001 - 2003).

Society for Psychophysiological Research –Member, Tursky Award Committee for Excellence in Predoctoral Research (Oct, 2004)
The Sleep Fellowship Selection Committee (2005-2008)
Ad Hoc Committee on Promotions to Clinical Ranks, SUNY at Buffalo (Dec 12, 2005- June 30 2008)

Research Groups and Extramural Activities

Member, NIH Center for Scientific Review Special Emphasis Panel (Fellowships: Behavioral Neuroscience ZRG1 F02A-J (20), 2010-Present)
Member, NIH Study Section (ad hoc): National Center for Complimentary & Alternative Medicine Special Emphasis Panel (ZAT1 G15; 2005)
Member, NIH Study Section (ad hoc): Risk Prevention and Health Behavior 2 (2000-2002)
Chairman, Medical Ethics Database Sub-Committee, Buffalo General Hospital,(1999 - 2000)
Chairman, ADAMHA (NIH) Mental Health Research Education Review Committee (Biological and Neuroscience Sub-Committee; 1984 - June 1986)
Member, ADAMHA (NIH) Mental Health Research Education Review Committee (Biological and Neuroscience Sub-Committee; 1979 - 1981, 1982 - June 1986)
Member, ADAMHA (NIH) Physician Scientist and Clinical Investigator Award Special Review Committee (1985)
Member, Neuroscience Project Advisory Team for Navy Personnel Research and Development Center (1985)
Member, National Institute of Health, Site Visit and Special Review Committee, Centers for Learning Disabilities (1989)
Member, National Institute on Drug Abuse Special Review Committee - Human Development (1990)
Developmental Psychobiology Research Group (University of Colorado School of Medicine)
Member, MacArthur Foundation Network for Transition from Infancy to Early Childhood (September 1982 -1985)
Neuroscience Research Group (University of Colorado School of Medicine, and University of Colorado, Boulder)
Developmental Biobehavioral Research Group, SUNYAB School of Medicine, Founder and Organizer (1986 -1989)
Member, Epilepsy Affinity Group, Department of Neurology, SUNYAB
Member, Professional Advisory Board, Epilepsy Association of Western New York, (1988 - 2000)
Member, Medical Subcommittee of the Health Services Advisory Council, Head Start, Buffalo (1988 - 1992)
Member, Scientific Advisory Board for Research Institute on Alcoholism, Buffalo (1989 - 1991)
Consulting Editor for Psychophysiology
Consulting Editor for Perceptual and Motor Skills
Consulting Editor for Science
Consulting Editor for Pediatric Research
Consulting Editor for Cognitive Psychology
Consulting Editor for Pharmacology, Biochemistry and Behavior
Associate and Consulting Editor for The Behavioral and Brain Sciences
Consulting Editor for Experimental Gerontology
Consulting Editor for Developmental Psychology
Consulting Editor for Child Development
Consulting Editor for Developmental Neuropsychology
Consulting Editor for International Journal of Psychophysiology
Outside reviewer for Clinical and Diagnostic Laboratory Immunology
Outside reviewer for National Science Foundation
Outside reviewer for National Institute on Mental Health
Outside reviewer for the March of Dimes Foundation
Outside reviewer for the Ontario Mental Health Foundation
Reviewer for MacArthur Foundation
Reviewer for Thrasher Foundation
Outside reviewer for Research Committee of Henry Ford Hospital, Detroit Michigan
Editorial Board for Neurobiology of Aging (1992 - 2001)
Guest Editor with Janet L. Shucard for Special Issue of International Journal of Psychophysiology (2011-2012)

Recent Community Service

Medical Ethics Consultant, Buffalo General Hospital. Serve on medical ethics consultations as a member of the Medical Ethics Committee. 2000 – present.

Campaign Manager for Committee to Elect John Radel for Amherst Town Clerk, 2011.

Amherst Democratic Committee, elected member, July 2004 to present

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

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

Grants and Awards

Under review	ERP Variability, Quantitative MRI, and Cognitive Function in NPSLE (PI) Lupus Foundation of America
Under review	Nonmotor Symptom Improvement with Resagiline Treatment in PD: Functional Electrophysiological Measures of Mild Cognitive Impairment (PI), From TEVA
2012-2012	Single Trial Latency Variability of Brain activity in Multiple Sclerosis: A Functional marker of Neural Efficiency, (PI). From The Jog for the Jake Foundation 01/01/12-12/31/2012)
2011-2011	Anti-Phospholipid Antibodies and C-Reactive Protein as Biomarkers of Cognitive Deficits and Microscopic White and Gray Matter Brain Damage in Systemic Lupus Erythematosus, (Co-PI). From The Jog for the Jake Foundation 1/01/2011-12/21/2011)
2006-2011	Neurological Indices of CNS Involvement in “Non-CNS” SLE, (Co-PI). From NIH - NINDS (01/01/06-12/31/11, includes 1 year extension)
2007-2010	Electrophysiological measures of processing speed and working memory deficits in MS, (Principal Investigator). From National Multiple Sclerosis Society (5/1/07-05/01/2010)
2006-2006	Neurological Indices of CNS Involvement in “Non-CNS” SLE, (Principal Investigator). Equipment grant. From James H. Cummings Foundation, Inc. (5/11/2006-8/28/2006)
2002-2004	Electrophysiological measures of processing speed and working memory deficits in MS (Co-Investigator). From National Multiple Sclerosis Society (9/1/02-2/28/05)
2003-2004	Electrophysiological and Neuropsychological Indices of Gender Differences in Verbal and Spatial Working Memory in Children, (PI). From IREWG (6/1/2003-6/1/2004)
2003-2004	Long Term Effects of CNS Therapy on Survivors of Childhood All: 25 year follow-up (Co-Investigator). From Roswell Park Alliance Foundation (6/1/2003-5/31/2004)
2000-2002	Sustained Moderate Hypoxia - The Cerebral Effects, (Co-Investigator). From The American Lung Association (7/1/2000-6/30/2002)
1998-2002	Psychological and Neurocognitive Aspects of CNS-SLE, (Co-PI). From Oishei Foundation (3/1/1998-2/29/2002)
2000-2001	Neurotoxicity of Polybrominated Diphenyl Ethers, (Co-PI). From New York Great Lakes Research Consortium (9/1/2000-6/30/2001)
1998-2000	Functional Neuroimaging of Auditory Attention, (Co-PI). From James H. Cummings Foundation (8/1/1998-7/31/2000)
1995 - 1998	Electrophysiological and Neuropsychological Studies of the Cognitive Deficits in Autism (Buswell Postdoctoral Fellowship Award, D. Shucard, Sponsor) From SUNY at Buffalo Multi-disciplinary Development Fund (7/1/95 - 6/30/98)
1995 - 1996	Functional Anatomy of Selective and Divided Auditory Attention (Co-Investigator). From SUNY at Buffalo Multi-disciplinary Development Fund (7/1/95 - 6/30/96)

- 1991 - 1995 Sex Hormones in Neurocognitive Development (Principal Investigator). From NIH, HD25718 (7/1/91 - 6/30/95)
- 1990 - 1991 Start up funds for Developmental Neurocognitive Assessment Center (Principal Investigator). From the Junior Board of Buffalo General Hospital, #091 (6/1/90 -12/31/91)
- 1987 - 1989 Neurocognitive Effects of Growth Hormone Treatment in Patients with Turner's Syndrome (Co-Investigator). From Genentech, Inc. (10/1/87 - 12/31/89)
- 1986 - 1988 Differential Diagnosis in Reading Disability - Program Project Supplement (Principal Investigator). From NIH, HD11681 (7/1/86 - 6/30/88)
- 1982 - 1987 Network for Transition from Infancy to Early Childhood (Co-Investigator). From MacArthur Foundation (9/1/82 - 8/31/87)
- 1984 - 1986 Brain Bases of Behavior in the Transition Period (Co-Principal Investigator). From MacArthur Foundation (1/1/84 - 12/31/86)
- 1981 - 1987 Electrophysiological Studies of Brainstem, Cortical, and Cognitive Development in Low Birth weight Infants (Principal Investigator). From the March of Dimes Birth Defects Foundation (3/1/81 - 2/28/87)
- 1979 - 1985 Differential Diagnosis in Reading Disability - Program Project (Co-Principal Investigator). From NIH, HD11681 (7/1/79 - 6/30/85)
- 1981 - 1984 Neurobehavioral Development in High-Risk Infants (Co-Principal Investigator with David G. Thomas). From NIH, HD15844 (7/1/81 - 12/31/84)
- 1980 - 1984 Brain Reactive Antibodies in Autoimmune Mice (Co-Investigator). From NIH, NS15855 (8/1/80 - 7/31/84)
- 1983 - 1984 Resource Allocation in Cerebral Specialization of Function: Behavioral and Electrophysiological Studies (Principal Investigator). From the Office of Naval Research (4/1/83 - 12/31/84)
- 1980 - 1983 Neurophysiological Substrates of Resource Allocation in Cerebral Specialization of Function (Principal Investigator). From the Office of Naval Research (7/1/80 - 3/31/83)
- 1979 - 1983 CNS pathology During Immune Complex Disease (Co-Investigator). From NIH, NS15843 (12/1/79 - 11/30/83)
- 1978 - 1981 Neurophysiological Effects of Antiasthma Medication (Principal Investigator). From The John A. Hartford Foundation, Inc. 77333 (3/1/78 - 12/31/81)
- 1978 - 1981 Electrophysiological Measures of Cerebral Specialization in Infants and Children (Principal Investigator). From NIH, HDNS11747 (6/1/78 - 3/31/81)
- 1975 - 1979 CNS Involvement in Immune Complex Disease (Co-Principal Investigator with R. Harbeck). From NIH, NS 12394 (6/1/75 - 6/30/79)
- 1976 - 1977 Evoked Potentials and Cerebral Specialization In Infants (Principal Investigator). From NIMH, MH-28513 (4/1/76 - 3/31/77)
- 1977 - 1978 Levels of Cerebral Specialization and Event Related Auditory Potentials in Human Infancy (Principal Investigator). From W.T. Grant Foundation (7/1/77 - 6/1/78)

Training Grants

Neuropsychology Post-Doctoral Training Program, (9/98- 2010)

Pre- and Postdoctoral Training Grant, Core Faculty, "Development of Spoken Language Capacities", SUNY at Buffalo, Department of Psychology, from NIH, National Institute of Deafness and Communication Disorders (7/1/92 - 6/30/97)

Postdoctoral Training Grant, Core Faculty, "Multidisciplinary Research in Orofacial Pain and Sensory-Motor Dysfunction", SUNY at Buffalo School of Dental Medicine, Department of Oral Medicine, NIH, (9/1/91 - 8/31/96)

Postdoctoral Training Grant, Core Faculty, "Development and Etiology of Maladaptive Behavior", University of Colorado School of Medicine, NIMH, (1976 - 1981, 1982 - 1987)

Predoctoral Training Grant, Core Faculty, Child Psychology, University of Denver, NIMH (7/1/79 - 6/30/83)

Postdoctoral Training Grant, Core Faculty, Developmental Psychology, University of Denver, NIMH (7/1/76 - 6/30/84)

Published Articles and Book Chapters

Homzie M. J., Shucard D. W., Trost R. C. Effects of percentage of reinforcement in fear conditioning upon the acquisition of an instrumental response. Psychonomic Science, 1969, 17, 143 - 146.

Shucard D. W., Horn J.L., Metcalf, D. An objective procedure for the hand scoring of cortical average evoked potentials. Behavior Research Methods and Instrumentation, 1971, 3, 5-7.

Shucard D. W., Horn J.L. Evoked cortical potentials and measurement of human abilities. Journal of Comparative and Physiological Psychology, 1972, 78, 59-68.

Shucard D. W., Horn J.L. Evoked cortical potentials and measurement of human abilities. In: H.J. Eysenck (Ed) The Measurement of Intelligence. Williams and Wilkins Co., Baltimore, 1973, 430-439.

Shucard D. W. IQ: Methodological and Other Issues. Science, 1972, 178, 235.

Shucard D.W., Callaway III, E. Relationship between human intelligence and frequency analysis of cortical evoked responses. Perceptual and Motor Skills, 1973, 36, 147-151.

Shucard D. W., Horn J.L. Evoked potential amplitude change related to intelligence and arousal. Psychophysiology, 1973, 10, 445-452.

Shucard D. W., Callaway III, E. Auditory evoked potential amplitude and variability-effects of task and intellectual ability. Journal of Comparative and Physiological Psychology, 1974, 87, 284-294.

Kinsman R.A., Spector S., Shucard D.W., Luparello T.J. Observations on patterns of subjective symptomatology of acute asthma. Psychosomatic Medicine, 1974, 36, 129-143.

Shucard D. W., Andrew M., Beauford C. A safe and fast-acting surgical anesthetic for use in the guinea pig. Journal of Applied Physiology, 1975, 38, 538-539.

Carr R.I., Shucard D.W., Hoffman S.A., Hoffman A.A., Bardana E.J., Harbeck R.J. Neuropsychiatric Involvement in Systemic Lupus Erythematosus. In: D.Bergsma and A.L. Goldstein (Eds.), Neurochemical and Immunologic Components in Schizophrenia. Alan R. Liss, Inc., New York, 1978, 209-235.

Shucard D. W., Andrew M. Atropine induced bradycardia in the guinea pig: dose-response. Research Communications in Chemical Pathology and Pharmacology, 1977, 16, 401-410.

Shucard D.W., Shucard J.L., Thomas D.G. Auditory evoked potentials as probes of hemispheric differences in cognitive processing. Science, 1977, 197, 1295-1298.

- Hoffman S.A., Hoffman A.A., Shucard D.W., Harbeck R.J. Antibodies to dissociated cerebellar cells in New Zealand mice as demonstrated by immunofluorescence. Brain Research, 1977, 142, 477-486.
- Harbeck R. J., Hoffman A.A., Hoffman S.A., Shucard D.W., Carr R.I. A naturally occurring antibody in New Zealand mice cytotoxic to dissociated cerebellar cells. Clinical and Experimental Immunology, 1978, 31, 313-320.
- Hoffman S.A., Shucard D.W., Harbeck R.J., Hoffman A.A. Chronic Immune Complex Disease: Behavioral and Immunological Correlates. Journal of Neuropathology and Experimental Neurology, 1978, 37, 426-436.
- Shucard D. W., Shucard J. L. Stimulus intensity expectation and visual evoked brain potentials. Psychophysiology, 1978, 15, 522-530.
- Harbeck R. J., Hoffman A.A., Hoffman S.A., Shucard D.W. Cerebrospinal fluid and the choroid plexus during acute immune complex disease. Clinical Immunology and Immunopathology, 1979, 13, 413-425.
- Brodie H.A., Shucard D.W., Hoffman S.A. A simple apparatus for blocking small animal brains. Brain Research Bulletin, 1979, 4, 439-441.
- Hudgel D. W., Shucard D. W. Coexistence of sleep apnea and asthma resulting in severe sleep hypoxemia. Journal of the American Medical Association, 1979, 242, 2789-2790.
- Hudgel D. W., Shucard D.W. Sleep hypoxemia: Growing clinical awareness. Colorado Medicine, 1980, 77, no.1, 25-30.
- Thomas D., Campos J., Shucard D.W., Ramsay D., Shucard J.L. Semantic comprehension in infancy: A signal detection analysis. Child Development, 1981, 52, 708-803.
- Shucard J. L., Shucard D.W., Cummins K.R., Campos J.J. Auditory evoked potentials and sex-related differences in brain development. Brain and Language, 1981, 13, 91-102.
- Crnici L., Reite M.L., Shucard D.W. Animal models of Human Behavior: Their application to the study of attachment. In: R. Emde and R. Harmon (Eds.), Attachment & Affiliative Systems: Neurobiological and Psychobiological Aspects. Plenum Publishing Corp., New York, 1982, 31-42.
- Selinger M., Shucard D.W., Prescott T. Relationships between behavioral and electrophysiological measures of auditory comprehension. In: R.H. Brookshire (Ed.) Clinical Aphasiology Conference Proceedings. BRK publishers, Minneapolis, Minnesota, 1980, 217-225.
- Shucard D. W., Cummins K.R., Thomas D.G., Shucard J.L. Evoked potentials to auditory probes as indices of cerebral specialization of function - replication and extension. EEG and Clinical Neurophysiology, 1981, 52, 389-393.
- Hoffman S.A., Shucard D.W., Brodie H.A., Reifenrath C., Harbeck R.J. Suppression of water intake by immune complex formation in the hypothalamus: Implications for systemic lupus erythematosus. Journal of Neuroimmunology, 1982, 2, 167-176.
- Salamy J., Shucard D.W., Alexander H., Peterson D., Braud L. Physiological changes in hyperactive children following the ingestion of food additives. The International Journal of Neurosciences, 1982, 16, 241-246.
- Shucard D.W., Shucard J. L., Campos J.J., Salamy J.G. Some issues pertaining to auditory evoked potentials and sex-related differences in brain development. Brain and Language, 1982, 16, 342-347.
- Kuraisa R. J., Shucard D.W., Salamy J. G. A laboratory computer system for control of events and real time data acquisition and display. Proceedings of the Digital Equipment Users Society, May, 1982, 1159-1164.
- Thomas D. G., Shucard D.W. Changes in patterns of hemispheric electrophysiological activity as a function of instructional set. International Journal of Neurosciences, 1983, 18, 11-20.
- Shucard D.W., Shucard J. L., Thomas D.G. 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, 1984, 293-314.

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- Thomas D. G., Shucard D. W. The use of a control or baseline condition in electrophysiological studies of hemispheric specialization of function. EEG and Clinical Neurophysiology, 1983, 55, 575-579.
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- Shucard D. W., Cummins K.R., McGee M.G. Event-related potentials differentiate normal and disabled readers. Brain and Language, 1984, 21, 318-334.
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- Welch T.M., Church M.W., Shucard D.W. A method for chronically recording brainstem and cortical auditory evoked potentials from unanesthetized mice. EEG and Clinical Neurophysiology, 1985, 60, 78-83.
- Shucard D. W., Cummins K.R., Gay E. Electrophysiological studies of reading disabled children: In search of subtypes. In: D. Gray and J. Kavanagh (Eds.), Biobehavioral Measures of Dyslexia. York Press, Maryland, 1985, 87-106.
- Pennington B.F., Heaton R.K., Karzmark P., Pendleton M.G., Lehman R., Shucard D.W. The neuropsychological phenotype in Turner Syndrome. Cortex, 1985, 21, 391-404.
- Salamy J. G., Grunstein M.M., Welanko P.R., Shucard D.W. Effects of impeded breathing on auditory brainstem responses in conscious man. International Journal of Neuroscience, 1985, 27, 173-179.
- Shucard D. W., Shucard J. L., Thomas D.G. Sex differences in the patterns of scalp-recorded electrophysiological activity in infancy: possible implications for language development. In: S. U. Philips, S. Steele and C. Tanz (Eds.), Language, Gender and Sex In Comparative Perspective. Cambridge University Press, New York, 1987, 278 - 295.
- Church M. W., Shucard D. W. Pentobarbital-induced changes in the mouse brainstem auditory evoked potential as a function of click repetition rate and time postdrug. Brain Research, 1987, 403, 72-81.
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Books and Edited Journals

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Selected Manuscripts In Preparation for Submission (See last page of CV for additional manuscripts in Preparation)

- 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.
- Covey, T.J., Shucard, J.L., Shucard, D.W. Cognitive electrophysiological evidence of functional deficits in MS obtained during a working memory task.
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Shucard, J.L., Lee, J., Covey, T.J., Violanti, J., Shucard, D.W. Evidence of frontal dysregulation associated with heightened attention to task- irrelevant stimuli in police officers with high PTSD symptomology: a dense electrode array ERP study. Manuscript to be submitted to Neuroimage.

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Book Reviews

Shucard D. W. Book Review: The Electrophysiology of Intellectual Functions, Duilio Giannitrapani, S. Karger, New York, 1985. Journal of Clinical Neurophysiology, 1986, 3,3, 268-270.

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Papers Presented and Published Abstracts

Shucard D. W. Cortical evoked potentials and measures of abilities comprising human intelligence. Third Annual Winter Conference on Brain Research, Snowmass-at-Aspen, Colorado, 1970.

Shucard D. W. The cortical evoked potential as an index of human abilities. Invited lecture, Sonoma State Hospital, Butler Hospital, Eldridge, California, 1970.

Shucard D. W., Zeiner A. The effects of unilateral vagotomy on habituation of heart and respiratory rates in the albino rat. Presented by title at Society for Psychophysiological Research Meetings, New Orleans, Louisiana, 1970. Psychophysiology, 1971, 8, 275.

Shucard D. W., Callaway III, E. AEP habituation-temporal uncertainty and stimulus interest. Presented at Fourth Annual Winter Conference on Brain Research, Snowmass-at-Aspen, Colorado, 1971.

Shucard D. W. Visual evoked potential measures and human abilities. Presented at Western Psychological Association Meetings, San Francisco, California, 1971.

Shucard D. W. Human cortical evoked potentials and assessment of individual differences. Invited lecture, Department of Psychiatry, University of Colorado School of Medicine, Denver, Colorado, 1971.

Shucard D. W. Effects of instructional set on visual evoked potentials. Presented at society for Psychophysiological Research Meetings, Boston, Massachusetts, 1972. Psychophysiology, 1972, 10 (2), 194.

Shucard D. W. Symposium on neural measures of intelligence: A critical examination. Invited participant, Canadian Psychological Association Meetings, Victoria, B.C., 1973.

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

Shucard D. W., Beauford C. Atropine and systemic anaphylaxis in the guinea pig. Clinical Research, 1974, 22, 512A.

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- 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., Cummins K.R., McGee M.G. Hemispheric patterns of electrophysiological activity in normal and disabled readers. Invited presentation at the Cognitive Science and Educational Practice Conference, Ohio State University, Columbus, Ohio, July, 1982.
- Shucard D.W., Shucard J.L., Dean K.G., Pennington B.F. Electrophysiological and neuropsychological indices of visuospatial deficits in Turner Syndrome adults. Presented at the 90th annual meeting of the American Psychological Association, Washington DC, August, 1982.
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- 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, Arizona, January 28-30, 1983.

- Shucard D.W. Cortical event-related potentials as probes of the functional organization of the brain. Invited address at the meetings of the Western Psychological Association, San Francisco, CA, April 27-30, 1983.
- Shucard D.W., Cummins K.R., McGee M.G., Hill J.C., Minarick D.D. Patterns of electrophysiological activity in normal and disabled readers. In: APA Symposium: Etiology of Developmental Reading Disabilities. Presented at the 91st annual meeting of the American Psychological Association, Anaheim, CA, August, 1983.
- McGee M.G., Shucard D.W. A two-group multifactorial model of etiology in developmental reading disabilities. In: APA symposium: Etiology of Developmental Reading Disabilities. Presented at the 91st annual meeting of the American Psychological Association, Anaheim, CA, August, 1983.
- Shucard D.W. Brain-behavior relationships - Event-related potentials as probes of the functional organization of the brain. Invited participant, Developmental Behavior Genetics and Learning Conference, Leesburg, Virginia, September, 1983 (Sponsored by the Human Learning and Behavior Branch of NICHD).
- 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, 1983, 20, 474.
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- Hoffman S.A., Arbogast D.N., Ford P.M., Shucard D.W., Harbeck R.J. Anti-cerebellar antibody levels in the sera of autoimmune mice. Presented at the Society for Neuroscience Meetings, Boston, MA, November, 1983. Society for Neuroscience Abstracts, 1983, 9, 269.
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- Shucard D.W., Welch T.M., Church M.W., Hoffman S.A. A method for obtaining auditory brainstem evoked responses in unanesthetized mice. Presented at the Society for Neuroscience Meetings, Boston, MA, November, 1983. Society for Neuroscience Abstracts, 1983, 9, 1196.
- 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. Presented at the International Conference on Infant Studies, New York, NY, April, 1984. Infant Behavior and Development, 1984, 7, 331.
- McGee M.G., Shucard D.W., Cummins K.R., Gay E. Specific reading disability: phenotypic heterogeneity and a two-group, multifactorial theory of etiology. Presented at the Developmental Psychobiology Research Group Retreat, Estes Park, Colorado, May 30 - June 1, 1984.
- Shucard D.W. Electrophysiological findings in reading-disabled children: The search for subtypes. Invited participant, Biobehavioral Measures of Dyslexia Conference, Bethesda, Maryland, September, 1984 (Sponsored by the Human Learning and Behavior Branch of NICHD).

- Church M.W., Welch T.M., Shucard D.W. Pentobarbital-induced changes in the mouse auditory brainstem response as a function of stimulus repetition rate and time post-drug. Presented at the Society for Neuroscience Meetings, Anaheim, California, October, 1984. Society for Neuroscience Abstracts, 1984, 10, 112.
- Shucard D.W. Invited discussant on Symposium with H. Als (Chairperson), J.V. Hunt, L.S. Siegel, F.H. Duffy. Patterns of brain function in the premature infant. Presented at the Society for Research in Child Development Meetings, Toronto, Ontario, Canada, April, 1985.
- 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 D.W. Electrophysiological factors in dyslexia. Invited participant at The Gow Symposium on Dyslexia, South Wales, NY, September 1986.
- Shucard D.W. Neurophysiologic, cognitive and behavioral changes in Alzheimer's Disease and Down's Syndrome. Invited participant at the Alzheimer's Disease and Down's Syndrome Symposium, SUNY at Buffalo, October, 1986.
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