

## CURRICULUM VITAE

### **PERSONAL DATA**

Henry Augustus Buchtel IV  
Associate Professor of Psychology in Psychiatry (Emeritus)  
Neuropsychology Section  
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### **EDUCATION**

<u>Years</u>		<u>Graduated</u>	<u>Degree</u>
9/60-6/64	Dartmouth College	June 1964	B.A. (honors)
8/64-8/65	McGill University	August 1965	M.A.
8/65-8/69	McGill University	August 1969	Ph.D.

### **POSTDOCTORAL TRAINING**

9/69-8/72 Istituto di Fisiologia, University of Pisa, Pisa, Italy, Postdoctoral Training  
9/94-8/95 APA Approved Clinical Internship (Ann Arbor VA Medical Center)

### **SENIOR POSTDOCTORAL SPECIALIZATION**

9/72-8/75 National Hospital for Nervous Diseases, London, UK. Clinical Neuropsychologist  
9/75-8/78 Istituto di Fisiologia Umana, University of Parma, Parma, Italy, Research Fellow  
9/78-11/80 Montreal Neurological Institute, MRC Research Fellow and Clinical Neuropsychologist

### **ACADEMIC APPOINTMENTS**

09/1964-8/67	McGill University, Montreal, Quebec	Teaching Assistant
09/1971-9/72	Scuola Normale Superiore, Pisa, Italy	Teaching Fellow
09/1975-8/78	University of Parma, Department of Psychiatry	Visiting Professor
02/1981-03/20	University of Michigan, Psychiatry & Psychology	Associate Professor

### **ACADEMIC ADMINISTRATIVE APPOINTMENTS**

9/92-8/93 Clinical Area Chair, University of Michigan Dept. of Psychology  
5/00-03/17 Chair, VA Committee for the Prevention and Management of Disruptive Behavior  
8/00-6/11 Adverse Events Committee, Department of Psychiatry (Co-Chair '00-'08)

10/02-09/16 Network Director of Psychology Training, University of Michigan, Dept. of Psychiatry and Psychiatry/VA Consortium

**CLINICAL/HOSPITAL APPOINTMENTS**

12/80-03/17	Ann Arbor VA Medical Center	Staff Psychologist
09/85-08/87, 9/93-8/94	Ann Arbor VA Medical Center	Acting Chief, Psychology Service
09/87-02/08	Ann Arbor VA Medical Center	Associate Chief, Psychology Service
02/08-03/17	Ann Arbor VA Medical Center	Neuropsychology Section Chief
02/81-03/20	University of Michigan Hospital	Clinical Neuropsychologist

**CONSULTING POSITIONS**

10/94 Consultant to Vanderbilt University School of Medicine, Knoxville TN  
06/95 Consultant to St. Vincent's Hospital, Toledo OH

**SCIENTIFIC ACTIVITIES**

06/83-present Member of Editorial Board: Cortex  
09/09-present Consulting Editor, Journal of Clinical and Experimental Neuropsychology  
Periodic: Ad Hoc Reviewer Neuropsychologia, The Clinical Neuropsychologist, Epilepsia, Epilepsy Research, Psychological Review, Journal of Geriatric Psychiatry and Neurology, Experimental Brain Research  
09/10 Grant Review for Finnish Academy of Sciences

**SERVICE FOR NATIONAL ORGANIZATIONS**

Sigma Xi, The Scientific Research Honor Society  
2010-12 Associate Director, North Central Regional Constituency  
2012-13 Interim Director, North Central Regional Constituency  
2013-14 Associate Director, North Central Regional Constituency  
American Psychological Association  
2012-16 Member, Commission on Accreditation (CoA)

**GRANT SUPPORT (chronological – old-new)**

Principal Investigator:

1981-1982 Research Initiation Support: Department of Psychiatry, University of Michigan Medical School. Project Title: "Attentional Disorders in Neurological and Psychiatric Patients." \$5070.00

1981-1982 Research Initiation Support: Biomedical Research Support Grant, University of Michigan. Project Title: "Organization of Visual-Motor Reactions in Left- and Right-Handers." \$3500.00

1982-1983 NIMH/ADAMHA: Project Title: "Eye movements in Monkeys with Frontal Lesions." \$10,127.00

1982-1984 Veterans Administration Medical Research Advisory Group Grant: Project Title: "Attention and Perception in Brain-Damaged Patients." \$33,613.00

1983-1984 NIH/National Eye Institute: Project Title: "Cortical Control of Visually Guided Eye Movements." Approved but not funded (\$14,802.00).

1983-1985 Research Initiation Support: Positron Emission Tomography Facility, University of Michigan: Project Title: "Emission Tomography of Brain Activity During Learning Tasks." \$6,000.00

1984-1987 Veterans Administration Medical Research Merit Review Grant: Project Title: "Attention and Perception in Brain-Damaged Patients." \$83,900.00

1987-1991 Veterans Administration Medical Research Merit Review Grant: Project Title: "Attention and Perception in Brain-Damaged Patients." \$112,500.00

1991-1994 Veterans Administration Medical Research Merit Review Grant: Project Title: "Attention and Perception in Brain-Damaged Patients." \$98,500.00

1989-1995 Veterans Administration Medical Center, Ann Arbor MI: (Co-PI with Kenneth Casey, M.D.): "Utility of Positron Emission Tomography in the clinical evaluation of dementia." \$75,000.00

1991-1996 Veterans Administration Medical Center, Ann Arbor MI: (Co-PI with Kenneth Casey, M.D.): "Brain organization of speech mechanisms: Evidence from PET in epilepsy surgery patients." \$85,000.00

Co-Investigator/Consultant: **(chronological – old-new)**

1989-1996 National Institutes of Health. Project Title: Emission Computed Tomography of Local Cerebral Function (D.E. Kuhl, P.I.). 5% Effort. \$893,660.00

1996-2000 National Institutes of Health. Project Title: "Identification of Early Alzheimer's Disease" (D.E. Kuhl, P.I.). 5% Effort.

1991-1995 National Institutes of Health. Project Title: Unilateral Spatial Neglect Following Stroke. (C.M. Butter, P.I.). 5% Effort. \$283,652.00

1998-2001 Merit Review Project Title: "Forebrain Mechanisms of Chronic Neuropathic Pain". (K.L. Casey, P.I.). 10% Effort. \$364,800.00

2000-2004 National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). Project Title "Forebrain Mechanisms of Chronic Non-Neuropathic Pain". (K.L. Casey, P.I.). 10% Effort \$1,100,000

2002-2007 National Institutes of Health. Project Title: "Randomized Trial of Early Surgical Interventions for Medial Temporal Lobe Epilepsy" (J. Engel, P.I.) Neuropsychologist for University of Michigan. \$7,142,493.00

2009-2014 National Institutes of Health. Project Title: "Functional Imaging as a Biomarker for Neurotoxicity after Brain Irradiation" (Y. Cao, P.I.) Co-investigator, 5% Effort. \$1,722,867.00

**CERTIFICATION AND LICENSURE**

9/93-present Clinical Psychologist (Michigan 6301008990)

9/94-8/95 APA Approved Clinical Internship (Ann Arbor VA Medical Center)

**MILITARY SERVICE:** n/a

**HONORS AND AWARDS**

1965 Sigma Xi (Research Honor Society), Associate Member

1980 Sigma Xi (Research Honor Society), Full Member

2013 Fellow, Association for Psychological Science

2015 Fellow, American Psychological Association (Division 40)

2016 Fellow, American Psychological Association (Divisions 6 & 18)

2020 Fellow, Sigma Xi (Research Honor Society)

**MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES**

1965-present: Sigma Xi (The Scientific Research Honor Society)

**For University of Michigan Chapter**

1985-86 Centennial Planning Committee, VA/U-M representative

1987-89 Secretary, University of Michigan Chapter Council

1990-91 President, University of Michigan Chapter Council

1991-92 Chair, Membership Committee University of Michigan Chapter

2004-07 President, University of Michigan Chapter Council

2007-09 Recording Secretary, University of Michigan Chapter Council

2009-16 Membership Secretary, University of Michigan Chapter Council

2016-present President, University of Michigan Chapter Council

**For National Sigma Xi:**

2006: Delegate to Annual Meeting

2007: Delegate to Annual Meeting

2010: Delegate to Annual Meeting

2011: Delegate to Annual Meeting

2012-2013: Associate Regional Director, North Central Region

2013: Acting-Director, North Central Region

2012: Delegate to Annual Meeting

2013: Delegate to Annual Meeting

2014: Delegate to Annual Meeting

2018: Delegate to Annual Meeting

2021: Delegate to Annual Meeting

1972-present International Brain Research Organization  
 1977-present International Neuropsychology Symposium (Member of the governing board since 2001; Secretary 2021-present) (Fellow 2007).  
 1980-present American Psychological Association (APA) (Fellow 2015: D6; D18; D40)  
 1985-present International Neuropsychological Society  
 1987-2020 American Epilepsy Society  
 2012-2020 Association for Psychological Science (Fellow 2013)  
 2012-2016 Member (APPIC), APA Commission on Accreditation (CoA)

### **TEACHING ACTIVITIES**

International (**chronological – new-old**):

Sept-Nov 1996 “Neuropsychology” Short course for graduate students at Peking University, Beijing China.  
 Sept ’71-Mar ’72 “Psicologia Fisiologica” Physiological Psychology Course for Medical Students at the University of Pisa, Italy

University of Michigan:

Lectures (**chronological – new-old**)

2011-2020 “The Wada Test” (yearly lecture to Fellows in Neurology)  
 2004-2011 “Principles of Psychology” Organizer of short course for Psychiatry Residents.  
 2003-2019 “Neuropsychology for Epileptologists” (yearly lecture to Fellows in Neurology)  
 W 1999: “Assessment” Psych 674; Invited Lecture (Neuropsychological testing)  
 W 1993: “Human Neuropsychology” Psych 434; Invited lectures

Courses (**chronological – new-old**)

F 2002: “Comparative Theories in Clinical Psychology” Psych 775  
 F 1999: “Comparative Theories in Clinical Psychology” Psych 775  
 F 1998: “Comparative Theories in Clinical Psychology” Psych 775  
 F 1997: “Comparative Theories in Clinical Psychology” Psych 775  
 W 1997: “Clinical Proseminar (Ethics; Professional Practice)” Psych 679  
 W 1996: “Topics in Human Neuropsychology” Psych 908  
 W 1993: “Topics in Clinical Psychology” Psych 998

SERVICE ON DISSERTATION COMMITTEES (27) (**chronological – new-old**)

2020 Nicole Brundige (Clinical Psychology, Fielding University, Santa Barbara CA. “High Gender Role Conflict and Stigma by Association in Husband Caregivers of Women with Alzheimer’s Disease: Effects on Vulnerability to Self-Isolation”, Committee Member (External Examiner)

2011 Reagan Gale (Clinical Psychology, Windsor University, Windsor Canada) “Understanding the Neuroanatomical basis of executive dysfunction in medically refractory temporal lobe epilepsy”, Committee Member (External Examiner)

- 2003 Nancy Dietrich (Clinical Psychology) “Women and mothering: The impact of internalized representations”, Chair of Committee.
- 2002 Christopher Fletcher (Clinical Psychology) “Development and validation of a University Counseling Center Assessment instrument”, Member of Committee.
- 2000 Lawrence Thompson (Clinical Psychology) Defense styles of borderline patients with and without history of childhood sexual abuse, Co-Chair of Committee.
- 1998 Clare Michaels (Clinical Psychology) “Peritraumatic Dissociation: Measurement and Consequences”, Committee Member.
- 1998 Mary Hasselbach (Biopsychology) “Spatial neglect: Effects of body rotation in brain-damaged patients and controls”, Committee Member.
- 1997 Luis Gomez (Clinical Psychology) “Cognitive and ritualization styles in compulsive disorders” Co-Chair of Committee.
- 1997 Erika Homann (Clinical Psychology) “Intergenerational transmission of depression: Attachment, affect regulation and separation-individuation” Co-Chair of Committee.
- 1997 Jane Huggins (Bioengineering) “Detection of event-related potentials from the human cortex as the basis of a direct brain interface for the operation of assistive technology” Cognate Member of Committee
- 1996 Amy Ai (Social Work and Psychology) “Psychosocial adjustment and health care practices following coronary artery bypass graft surgery (CABG)” (winner of 1997 Rackham Distinguished Dissertation Award 4/97), Committee Member.
- 1996 Ingrid Wheelock (Clinical Psychology) “Psychosocial adjustment following surgery for intractable epilepsy” Co-Chair of Committee.
- 1995 Donald Leichter (Clinical Psychology) “Children’s recall of projective stories” Co-Chair of Committee
- 1995 Joseph Himle (Social Work and Psychology) “The effect of alcohol on social phobic anxiety” Chair of Committee.
- 1994 Tamar Springer (Clinical Psychology) “Short-term cognitive-behavioral group therapy for inpatients with personality disorders” Co-Chair of Committee.
- 1993 Joshua Rubinstein (Experimental Psychology) “Executive control of cognitive processes in task switching. Committee Member
- 1992 Todd Mondor (Experimental Psychology, University of Waterloo, Canada) “Auditory perceptual asymmetries: A function of the distribution of auditory spatial attention” External Examiner.

- 1992 Philip Wong (Clinical Psychology) “Conscious and nonconscious information processing: The role of anxiety and aversion” Committee Member
- 1990 Karen Luh (Biopsychology) “Right hemisphere dominance in the metacontrol of cerebral arousal” Co-Chair of Committee.
- 1990 Anne O’Reilly (Developmental Psychology) “Using representations: Comprehension and production of actions with imagined objects” Committee Member.
- 1990 Edna Pressler (Clinical Psychology) “Short-term outcome of patients with BPD” Co-Chair of Committee.
- 1989 Carole Simmons (Experimental Psychology) “Factors influencing accuracy of recognition memory for colors” Chair of Committee.
- 1989 Sonya Goodrich (Clinical Psychology) “Boundaries: Development of ‘self’ within a family” Co-Chair of Committee.
- 1987 Richard Hulteng (Clinical Psychology) “Influences on ethical decision-making by psychotherapists” Committee Member.
- 1986 Sandra Nagel-Leiby (Biopsychology) “Cerebral control of voluntary attention, directed with or without orienting saccades” Chair of Committee.
- 1986 Theodore Schuetz (Clinical Psychology) “Parameters of clinical thought and the inference process in projective psychological testing” Committee Member.
- 1986 Karen Saakvitne (Clinical Psychology) “Identifying non-psychotic cognitive errors on the WAIS-R: A study of borderline, depressed and normal subjects” Co-Chair of Committee.
- 1985 Margaret Jaffe (Clinical Psychology) “Remembrances of things past: Psychosexual themes and quality of self-other differentiation in early memories” Committee Member
- 1984 Ellen Quart (Education) “Memory and attention in children recovered from Reye’s Syndrome” Committee Member
- 1984 Debra Brodie (Experimental Psychology) “The neuropsychology of dual task performance: A motor behavior analysis” Committee Member

**EXTRAMURAL INVITED PRESENTATIONS (chronological – new-old)**

Buchtel, H.A. (2002) The use of half-brain anesthesia (Wada Test) in patients to study brain function. Invited presentation to the Chinese Academy of Sciences/Institute of Psychology, Beijing (December 24, 2002) and to the Cognitive Neuroscience seminar

- series at the Department of Psychology, Peking University, Beijing (December 26, 2002).
- Buchtel, H.A. (2002) The importance of individual differences in research on hemispheric laterality. Invited presentation to the 47<sup>th</sup> meeting of the International Neuropsychological Symposium, Sitges Spain. June 25-29, 2002.
- Buchtel, H.A. (1998) Golgi e la ricerca neuropsicologica contemporanea (Neuropsychological research at the time of Camillo Golgi 1843-1926). Invited presentation to a meeting sponsored by the Turin Academy of Medicine to commemorate the centenary of Golgi's discovery of the internal reticular apparatus, Turin, Italy, November 24, 1998.
- Buchtel, H.A. (1997) PET language activation studies of epilepsy patients before and after left temporal lobectomy. Invited presentation at the Institute of Human Physiology, Parma Italy, June 30, 1997.
- Buchtel, H.A. (1994) PET language activation studies of in epilepsy patients and matched normal controls. Invited presentation at the Institute of Physiology, Verona, Italy, June 28, 1994.

### **OTHER INVITED PRESENTATIONS (chronological – new-old)**

- Buchtel, H.A. (2011) Focus on Epilepsy: Memory Challenges for Individuals with Epilepsy. Presented at Focus on Epilepsy Conference, sponsored by the University of Michigan Center for Managing Chronic Disease/ Oakland Community College, March 26, 2011. Farmington Hills, MI.
- Buchtel, H.A. (2010) The Wada Test. Presented to the Annual Training Workshop for the American Society of Electroneurodiagnostic Technologists, University of Michigan, October 24, 2010. Ann Arbor MI.
- Buchtel, H.A. (2008) Traumatic Brain Injury: Neuropsychological Aspects. Public Presentation on Mental Health Issues of Veterans of the Afghanistan and Iraq Wars, sponsored by the Michigan Chapter of the National Alliance of Mental Illness (NAMI), April 14, 2008, Ann Arbor MI.

### **COMMITTEE AND ADMINISTRATIVE SERVICE**

#### **National:**

- NIH Scientific Advisory Committees: NIAAA Panel, 1996  
VA Scientific Advisory Committees: Special Initiatives in Neuroscience, 1998

#### **University of Michigan:**

- Clinical Neurophysiology Education Committee ('03-present)  
Office of Student Conflict Resolution: Resolution Officer ('98-'05)  
Psychology Department Space Committee, Co-Chair: 11/98-1/03  
Psychology Department Search Committee: Developmental Neuroscience Position 1999.  
Psychology Department Executive Committee ('91-'94; '97-'99)  
Records and Evaluations Committee, Psychology Department Clinical Area ('84-'85 and '87-'05; Chair '91-'05)  
Curriculum Committee, Psychology Department Biopsychology Area ('95-'96)  
Psychiatry Department "Web Page" Standards Committee ('95-'96)  
Clinical Area Executive Committee, Department of Psychology ('85-'87, '91-'92, '93-'95)



Psychiatry Department Computer Committee ('90-'95)  
 Admissions Committee, Psychology Department Clinical Area ('82 – '84, Chair '94)  
 University of Michigan Health Psychology Planning Committee ('84 – '92)  
 Colloquium Committee (Organizer), Psychology Department, Biopsychology Area ('82 – '83; '89 – '90)  
 University/VA Integration Committee, Department of Psychiatry ('81 – '82)

### **VA Ann Arbor Healthcare System**

Subcommittee on Human Studies ('81 – '89; Chair, '86 – '89)  
 Medical Audit Committee ('82 – '85)  
 Consent Policy Committee ('83 – '91)  
 Narcotics Inspection Team ('83 – '85)  
 Mental Health Council ('85 – '87)  
 Subcommittee for Computer Applications in Education and Research ('85 – '88)  
 Subcommittee for Computer Applications in In-Patient Clinical Services ('85 – '88)  
 Subcommittee for Computer Applications in Out-Patient Testing and Treatment ('85 – '88; Chair, '86 – '88)  
 Medical Records Subcommittee ('99 – '17)  
 Member, Expert Panel (SIUG) for DHCP Mental Health Package ('86-'99; Chair Subcommittee on Training, '88 – '92)  
 Finance Committee ('89 – '95)  
 Strategic Planning Committee ('91 – '93)  
 Organizer, Neuropsychology Case Conferences (CME Credit through U-M Department of Psychiatry) ('81 – '98)  
 Organizer, Health Psychology Seminar Series (CME Credit through U-M Department of Psychiatry) ('83 – '88, '89 – '99)  
 Information Resources Management Oversight Committee ('88 – '94; '97 – '05)  
 Application Coordinator (ADPAC) Mental Health ('88 – '17)  
 Violence in the Workplace Committee ('99 – '17)  
 Coordinator of the Employee Assistance Program ('08 – '10)  
 VA Alternative Resolution Dispute Board. Member ('98 – '09)  
 Computerization of Medical Records and Forms, Co-Chair ('99 – '04)

### **Community Service**

Hands-On Museum  
 Psychology Exhibit Organizing Committee ('95-'96)  
 Planning Committee, ('91-'94)

### **Other Service**

Ann Arbor Recycle Center  
 Block Recycle Coordinator/Representative (1981-1984)  
 Dartmouth College  
 Alumni Officer (Class of '64 Executive Committee 1999-present;  
 Secretary 1999-2004; Web Master 2000-present;  
 Digital Content Manager 2019-present)

PATENTS n/a

## BIBLIOGRAPHY

### a. Peer-Reviewed Publications (chronological – old-new)

- Landauer, T.K., Kilham, L. and **Buchtel, H.A.** (1967). Behavioral characteristics associated with the rat-virus induced "hamsters mongolism" syndrome. Journal of Psychiatric Research, 5, 95-106.
- Buchtel, H.A.** (1969). Visual form discrimination on the basis of relative distribution of light. Science, 164, 857-858.
- Buchtel, H.A.** (1970). Visual-learning deficits following cerebellar damage in rats. Journal of Comparative and Physiological Psychology, 72, 296-305.
- Buchtel, H.A.**, Iosif, G., Marchesi, G.P., Provini, L. and Strata, P. (1972). Analysis of the activity evoked in the cerebellar cortex by stimulation of the visual pathways. Experimental Brain Research, 15, 278-288.
- Buchtel, H.A.**, Rubia, F. and Strata, P. (1973). Cerebellar unitary responses to moving visual stimuli. Brain Research, 50, 463-466.
- Anzola, G.P., Bertoloni, G., **Buchtel, H.A.** and Rizzolatti, G. (1977). Spatial compatibility and anatomical factors in simple and choice reaction time. Neuropsychologia, 15, 295-382.
- Rizzolatti, G. and **Buchtel, H.A.** (1977). Hemispheric superiority in reaction time to faces: a sex difference. Cortex, 13, 300-305.
- Berlusconi, G., **Buchtel, H.A.** and Lepore, F. (1978). Successful interocular transfer of visual pattern discriminations in split-chiasm cats with section of the intertectal and posterior commissures. Physiology and Behavior, 20, 331- 338.
- Bertoloni, G., Anzola, G.P., **Buchtel, H.A.** and Rizzolatti, G. (1978). Hemispheric differences in the discrimination of the velocity and duration of a simple visual stimulus. Neuropsychologia, 16, 213-220.
- Buchtel, H.A.**, Campari, F., DeRisio, C. and Rota, R. (1978). Hemispheric differences in discriminative reaction time to facial expressions. Italian Journal of Psychology, 5, 159-169.
- Buchtel, H.A.** (1978). On defining neural plasticity. Archives Italiennes de Biologie, 116, 241-247.
- Buchtel, H.A.**, Rizzolatti, G., Anzola, G.P. and Bertoloni, G. (1978). Right hemispheric superiority in discrimination of brief acoustic duration. Neuropsychologia, 16, 643-647.
- Miglioli, M. **Buchtel, H.A.**, Campanini, T. and DeRisio, C. (1979). Cerebral hemispheric lateralization of cognitive deficits due to alcoholism. Journal of Nervous and Mental Disease, 167, 212-217.
- Rizzolatti, G., Bertoloni, G. and **Buchtel, H.A.** (1979). Interference of concomitant motor and verbal tasks on simple reaction time: a hemispheric difference. Neuropsychologia, 17, 323-330.
- Buchtel, H.A.**, Camarda, R., Rizzolatti, G. and Scandolara, C. (1979). The effect of hemidecortication on the inhibitory interactions in the superior colliculus of the cat. Journal of Comparative Neurology, 184, 795-815.

- Rizzolatti, G., **Buchtel, H.A.**, Camarda, R. and Scandolara, C. (1980). Neurons with complex visual properties in the superior colliculus of the macaque monkey. Experimental Brain Research, 38, 37-42.
- Buchtel, H.A.**, DeRisio, C., Campanini, T. and Rossi, F. (1982). Studio dei deficit cognitivi secondari ad alcoolismo. (Research into the cognitive deficits due to chronic alcoholism) Riv. Sper. Freniatria, 106, 910-922.
- Bond, J. and **Buchtel, H.A.** (1984). A Comparison of the Wisconsin Card Sorting Test and the Category Test. Journal of Clinical Psychology, 40, 1251-1255.
- Buchtel, H.A.** and Rueckert, L. (1984). Hand posture in writing: Possible artifacts from self report. Cortex, 20, 435-439.
- Guitton, D., **Buchtel, H.A.**, and Douglas, R.M. (1985). Frontal lobe lesions in man cause difficulties in suppressing reflexive glances and in generating goal-directed saccades. Experimental Brain Research, 58, 455-472.
- Luh, K.E., Butter, C.M. and **Buchtel, H.A.** (1986). Impairments in orienting to visual stimuli in monkeys following unilateral lesions of the superior sulcal polysensory cortex. Neuropsychologia, 24, 461-470.
- Berent, S., Giordani, G., Lehtinen, S., Markel, D., Penney, J.B., **Buchtel, H.A.**, Starosta-Rubinstein, S., Hichwa, R. & Young, A.B. (1988). PET scan investigations of Huntington's Disease: Cerebral metabolic correlates of cognitive function. Annals of Neurology, 23, 541-546.
- Buchtel, H.A.** and Butter, C.M. (1988). Spatial attentional shifts: Implications for the role of polysensory mechanisms. Neuropsychologia, 26, 499-509.
- Quart, E.J., **Buchtel, H.A.** and Sarnaik, A.P. (1988). Long- term memory deficits in Reye's Syndrome. Journal of Clinical and Experimental Neuropsychology, 10, 409-420.
- Buchtel, H.A.** and Stewart, J.S. (1989). Auditory agnosia: Apperceptive or associative disorder. Brain and Language, 37, 12-25.
- Butter, C.M., **Buchtel, H.A.** & Santucci, R. (1989) Spatial covert attentional shifts: Cross-modal effects with tactile and visual stimuli. Neuropsychologia, 27, 1231-1240.
- Nagel-Leiby, S., **Buchtel, H.A.** & Welch, K.M.A. (1990). Cerebral control of directed visual attention and orienting saccades. Brain, 113, 237-276.
- Boivin, M.J., Giordani, B., Berent, S., Amato, D.A., Lehtinen, S., Koeppe, R.A., **Buchtel, H.A.**, Foster, N.L. and Kuhl, D.E. (1992). Verbal fluency and positron emission tomographic mapping of regional cerebral glucose metabolism. Cortex, 28, 231-239.
- Selwa, L.M., Berent, S., Giordani, B., Henry, T.R., **Buchtel, H.A.**, and Ross, D.A. (1994) Serial cognitive testing in anterior temporal lobe epilepsy: Longitudinal changes with medical and surgical therapies, Epilepsia, 35, 743-749.
- Buchtel, H.A.**, Kluin, K.J., Ross, D.A. and Selwa, L.M. (1995) Language function after temporal lobectomy without stimulation mapping of cortical functions (Letter to the Editor – with response). Epilepsia, 36:1164-1165.
- Springer, T., Lohr, N.E., **Buchtel, H.A.** and Silk, K.R. (1996) A Preliminary report of short-term cognitive-behavioral group therapy for inpatients with personality disorders. Journal of Psychotherapy Practice and Research, 5:57-71
- Johnson-Greene, D., Adams, K.M., Anderson, C., **Buchtel, H.A.**, Miller, T. and Dehring, M. (1996) Assessing and facilitating medical patients' knowledge of advance directives. Journal of Clinical Psychology in Medical Settings, 3:103-113.
- Laeng, B., Butter, C.M. and **Buchtel, H.A.** (1996) Rod Bisection: Hemispheric activation and sex effects, Neuropsychologia, 34:1115-1121

- Buchtel, H.A.**, Butter, C.M. and Ayvasik, B. (1996) Effects of stimulus source, intensity and task demands on orienting of attention to auditory stimuli. *Neuropsychologia*, 34:979-985.
- Buchtel, H.A.**, Anderson, C., Adams, K.M. and Douglas-Greene, D. (1996) Advance directives in Hospital Setting: A method for optimizing availability to patients. *Hospital Topics*, 74:11-14.
- Selwa, L.M., **Buchtel, H.A.** and Henry, T.R. (1997) Electro cerebral recovery during the intracarotid amobarbital procedure: Influence of interval between injections. *Epilepsia*, 38:1294-1299.
- Ai, A.L., Peterson, C., Dunkle, R.E., Saunders, D.G., **Buchtel, H.A.** and Bolling, S.F. (1997) Gender differences in psychosocial adjustment following coronary artery bypass surgery. *Women & Health*, 26:45-65.
- Henry, T.R., **Buchtel, H.A.**, Koeppe, R.A., Pennell, P.B., Kluin, K.J. and Minoshima, S. (1998) Absence of normal activation of the left anterior fusiform gyrus during naming in left temporal lobe epilepsy. *Neurology* 50: 787-790
- Wheelock, I., Peterson, C. and **Buchtel, H.A.** (1998). Pre-surgery expectations, post-surgery satisfaction, and psychosocial adjustment following epilepsy surgery. *Epilepsia*. 39:487-494.
- Buchtel, H.A.** (2001) Left and right hemisphere contributions to physiognomic and verbal discrimination. *Neuropsychology*, 15:597-606.
- Buchtel, H.A.** (2001) Editorial: Introduction to forum on impact factors. *Cortex*, 37:455-456.
- Buchtel, H.A.**, Passaro, E., Selwa, L.M., Deveikis, J. & Gomez-Hassan, D., (2002) Methohexital (Brevital) as anesthetic in the Wada Test. *Epilepsia*. 43(9):1056-1061.
- Kostoff, R.N., Andrews, J., **Buchtel, H.A.**, and Pfeil, K.M. (2005) The hidden structure of neuropsychology: Text Mining of the Journal Cortex 1991-2001. *Cortex*, 41:103-115.
- Buchtel, H.A.** and Sergio Della Sala (2006) Impact Factor: Does the 80/20 Rule apply to CORTEX? *Cortex* 42:1064-1065.
- Berlucchi, G and **Buchtel, H.A.** (2009) Neuronal Plasticity: Historical Roots and Evolution of Meaning. *Experimental Brain Research*. 192:307-320. Online <http://dx.doi.org/10.1007/s00221-008-1611-6>
- Buchtel, H.A.**, Berlucchi, G. and Mascetti, G.G. (2009). Behavioural and electrophysiological analysis of strabismus in cats: Modern context. *Experimental Brain Research*, 192:359-368. Online <http://dx.doi.org/10.1007/s00221-008-1477-7>
- Cao, Y., Tsien, C.I., Sundgren, P.C., Nagesh, V., Normolle, D., **Buchtel, H.**, Junck, L. and Lawrence, T.S. (2009) Dynamic Contrast-Enhanced Magnetic Resonance Imaging As a Biomarker for Prediction of Radiation-Induced Neurocognitive Dysfunction. *Clinical Cancer Research*, 15: 1747-1754.
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#### **b. Non-Peer-Reviewed Publications and Reviews: (New to Old)**

- Kostoff, R.N., Briggs, M.B., Kanduc, D., Porter, A.L., **Buchtel, H.A.** (2020) Communicable Diseases are not Communicable! Georgia Institute of Technology. 2020. PDF. <https://smartech.gatech.edu/handle/1853/63805>
- Kostoff, R.N., Porter, A.L., **Buchtel, H.A.** (2018) Prevention and reversal of Alzheimer's disease: treatment protocol. Georgia Institute of Technology. 2018. PDF. <https://smartech.gatech.edu/handle/1853/59311>
- Kostoff, R.N., Zhang, Y., Ma, J., Porter, A.L., **Buchtel, H.A.** (2017) Prevention and reversal of Alzheimer's Disease. Georgia Institute of Technology. PDF. <https://smartech.gatech.edu/handle/1853/56646>
- Buchtel, H.A.** (2010) " The Centrality of Music in Our Lives and Our Minds." *PsycCRITIQUES: Contemporary Psychology: APA Review of Books*.
- Buchtel, H.A.** (2008) "Stroke: What clinicians working with stroke victims need to know." *PsycCRITIQUES: Contemporary Psychology: APA Review of Books*.
- Buchtel, H.A.** (1989) Experimental techniques in Human Neuropsychology. (Review of "Experimental Techniques in Human Neuropsychology"). *Journal of Clinical and Experimental Neuropsychology*, 11:774-776.

#### **c. Articles and Chapters Accepted for Publication:**

n/a

#### **d. Articles and Chapters Submitted for Publication:**

e. **Electronic Publications:** See Kostoff et al. papers above and [Blog](#).  
<https://neurogus.blogspot.com/>

f. **Educational Videos - Physician Education Material:** n/a

**g. Books**

Mazzarello, P. (1999) Hidden Structure: The scientific life of Camillo Golgi. Oxford: University of Oxford Press. (**Translated and edited** from the Italian, "La Struttura Nascosta: La Vita di Camillo Golgi" 1996. In collaboration with Aldo Badiani, M.D.).

**Buchtel, H.A.** (Ed.) (1982). The Conceptual Nervous System. Oxford: Pergamon Press (Selected papers from the works of D.O. Hebb, with preface by Oliver Zangwill).

**h. Chapters in Books (chronological – new-old)**

**Buchtel, H.A.** and Berlucchi, G. (2019) Stimulation: History of Brain Mapping. In W. Barr and L. A. Bieliauskas (Eds), *Oxford History of Clinical Neuropsychology*, Oxford University Press.

Hatcher, R.L. and **Buchtel, H.A.** (2016) Postdoctoral Training in Clinical Psychology. (In John C. Norcross, Gary R. VandenBos & Donald K. Freedheim: Associate Editor for Volume V: Linda F. Campbell, Eds.) *APA Handbook of Clinical Psychology. "Volume V: Education and Profession"*

**Buchtel, H.A.** & Selwa, L.M. (2009) Neuropsychological Aspects of Epilepsy. In I. Grant and K.M. Adams (Eds.) *Neuropsychological Assessment of Neuropsychiatric and Neuromedical Disorders*. 3rd edition. Oxford University Press

**Buchtel, H.A.** and Bieliauskas, L.A. (2008) Chapter 16: Anticonvulsants. In S. Berent & JW Albers (Eds.) *Neurobehavioral Toxicology: Neurological and Neuropsychological Perspectives, Vol. III, Central Nervous System*. London and New York: Taylor and Francis. Pp. 835-846.

**Buchtel, H.A.** "Temporal Lobes" (2002). V.S. Ramachandran (Ed.) Encyclopedia of the Human Brain. San Diego : Academic Press.

**Buchtel, H.A.** "Auditory Agnosia" (2002). V.S. Ramachandran (Ed.) Encyclopedia of the Human Brain. San Diego : Academic Press.

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Guitton, D., **Buchtel, H.A.** and Douglas, R.M. (1982). Disturbances of voluntary saccadic eye movement mechanisms following discrete unilateral frontal lobe removals. In G. Lennerstrand, D.S. Zee and E.L. Keller (Eds.), Functional Basis of Ocular Motility Disorders (pp. 497-499), New York: Pergamon Press.

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- Berlucchi, G. and **Buchtel, H.A.** (1975). Some trends in the neurological study of learning. In Gazzaniga, M.S. and Blakemore, C. (Eds.), Handbook of Psychobiology (pp. 481- 498), Academic Press, New York.
- Buchtel, H.A.**, Berlucchi, G. and Mascetti, G.G. (1975). Behavioural and electro-physiological analysis of strabismus in cats. In Vital-Durand, F. and Jeannerod, M. (Eds.), Aspects of Neural Plasticity (pp. 27-44), INSERM, Lyon, France.

#### **i. Abstracts, Preliminary Communications, Clinical Papers (chronological – old-new)**

- Buchtel, H.A. Effects of cerebellar damage on learning in rats. (1965). Presented to the annual meeting of the Eastern Psychological Association, April 3-5, Boston MA.
- Mascetti, G.G., Berlucchi, G. and Buchtel, H.A. (1970). Disturbi della percezione e dell'apprendimento visivi a seguito dell'immobilizzazione di un occhio nel gatto [Disturbances of perception and visual learning following the immobilization of an eye in the cat]. Archivio di Fisiologia, 68, 77.
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- Buchtel, H.A., Rubia, F.J. and Strata, P. (1972). Cerebellar unitary responses to moving visual stimuli. Proceedings of the Second International Symposium on Motor Control, 2, 56.
- Buchtel, H.A., Berlucchi, G. and Mascetti, G.G. (1972). Modifications in visual perception and learning following immobilization of one eye in cats. Brain Research, 37, 355-356.
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- Berlucchi, G. and Buchtel, H.A. (1973). "Anomalous retinal correspondence" in cats. Brain Research, 49, 505-506.
- Buchtel, H.A., Campari, F., DeRisio, C. and Rota, R. (1976). Hemispheric differences in discriminative reaction time to facial expressions: Preliminary Observations. Bollettino della Società Italiana di Biologia Sperimentale, 52, 1458-1463.
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- Buchtel, H.A. (1980). Discrimination of lateralized face stimuli after temporal lobectomy. Presented to the 29th Annual Meeting of the International Neuropsychological Symposium, Calcatoggio, France, June 23-27, 1980.
- Buchtel, H.A. and Stewart, J.D. (1982). Word deafness: Apperceptive or associative disorder? Presented to the 98th Annual Convention of the American Psychological Association, August 23-27, Washington, D.C.
- Guiora, A.Z., Buchtel, H.A., Herold, A.L., Homburg, T.J., and Woken, M.D. (1982-83). Right "hemisphericity" and pronunciation in a foreign language. Invited address to the 9th Annual Conference of the Israeli Association for Applied Linguistics, Bar Ilan University, Oct. 10, 1982, and paper presented to the annual meeting of TESOL, March, 1983, Toronto, Canada.
- Luh, K.E., Butter, C.M. and Buchtel, H.A. (1984). Effects of unilateral superior temporal sulcus lesions on visual orientation in monkeys. Presented to the Annual Meeting of the Society for Neuroscience, Anaheim, CA, October 10-15, 1984. Abstracts of the Society for Neuroscience, 10, 59.
- Berent, S., Giordani, B., Young, A.B., Penney, J.B., Buchtel, H.A. and Hichwa, R. (1984). Positron Emission Tomography (PET) of 18F-2-FLUORO-2-DEOXY-D-GLUCOSE (18FDG) Uptake in the Area of the Caudate Nucleus of Patients with Huntington's Disease: Findings with the Wechsler Memory Scale. The International Neuropsychological Society Bulletin, 13, 5.
- Hichwa, R.D., Berent, S., Giordani, B., Windisch, W.W., Buchtel, H. and Sackellares, J.C. (1985). Investigation of patients' self-report of anxiety and PET studies of local cerebral metabolic rate of glucose using F-18 labeled 2- FDG. Presented to the 32nd Annual Meeting of the Society of Nuclear Medicine, Houston, Texas, June 2-5.
- Berent, S., Hichwa, R.D., Giordani, B., Windisch, W.W., Buchtel, H. and Sackellares, J.C. (1985). Patients' self-report of anxiety before, during and after Positron Emission Tomographic scanning: Individual differences and their consequences for 18F-FDG LCMRG. Neurology, 35, 251.
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- Buchtel, H.A. (1986). Asymmetries in nature. Presented to the 35th Annual Meeting of the International Neuropsychological Symposium, Alghero, Italy, June 23-27, 1986.
- Quart, E.J., Buchtel, H.A. & Sarnaik, A.P. (1987). Long-lasting memory deficits in children recovered from Reye's syndrome. Presented to the 12th Annual meeting of the National Reye's Syndrome Foundation. Wichita, June 27- 28.
- Quart, E.J., Buchtel, H.A. & Sarnaik, A.P. (1987). Memory functions in children recovered from Reye's Syndrome. Journal of the National Reye's Syndrome Foundation, 7, 55-59.
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- 15th annual meeting of the International Neuropsychological Society, Washington D.C., February 18- 21. Journal of Clinical and Experimental Neuropsychology, 9, 80.
- Buchtel, H.A. (1987). Cognitive and emotional changes in Huntington's Disease: implications for treatment. Presented to the 2nd Annual Convention of the Huntington's Disease Society of America, Ann Arbor MI, August 14-16.
- Buchtel, H.A., Sackellares, J.C., Abou-Khalil, B.W., Berent, S., Gilman, S., Siegel, G.J., Hichwa, R.D., Hutchins, G.D. and Hood, T.W. (1987). Glucose metabolism in mesial temporal regions as a predictor of memory performance during the carotid sodium Amytal test. Presented to the Annual Meeting of the American Epilepsy Society, Baltimore MD, December 6-8. Epilepsia, 28, 619.
- Buchtel, H.A. (1988). Carotid Sodium Amytal (Wada) Test. Presented to Epilepsy Advances: Underlying mechanism, diagnostic modalities, pharmacological and surgical treatment. University of Michigan Medical School, Ann Arbor, MI, June 24-25.
- Lahav, R and Buchtel, H.A. (1989). Non-conscious "vision" in normal humans: Evidence for tectal mediation. Presented to the Annual Meeting of the Society for Neuroscience, Phoenix, AZ, October 30-November 3, 1989. Abstracts of the Society for Neuroscience, 15, 121.
- Kuhl, D.E., Koeppe, R.A., Foster, N.L., Agranoff, B.W., Buchtel, H.A. and Mountz, J.M. (1989): Cerebral perfusion, metabolic, and transport relations in Alzheimer's and Parkinsonian dementia. Presented to the 14th International Symposium on Cerebral Blood Flow and Metabolism, Bologna, Italy, May 28-June 1, 1989. J Cerebral Blood Flow and Metabolism 1989; 9 (Suppl 1):S525.
- Laeng, B., Butter, C.M. and Buchtel, H.A. (1990). Pseudoneglect for tactile line bisection in normal subjects. Presented to the 18th Annual Meeting of the International Neuropsychology Society, Kissimmee FL, February 14-17, 1990. Journal of Clinical and Experimental Neuropsychology, 12, 84.
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- Boivin, M.J., Giordani, B., Berent, S., Amato, D.A., Lehtinen, S., Koeppe, R.A., Buchtel, H.A., Foster, N.L. and Kuhl, D.E. (1991). Verbal fluency and positron emission tomographic mapping of regional cerebral glucose metabolism. Presented to the 19th Annual Meeting of the International Neuropsychological Society, San Antonio TX, February 13-16, 1991. Journal of Clinical and Experimental Neuropsychology, 13, 80-81.
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- Pressler, E., Lohr, N.E., Gold, L.J., Westen, D., Buchtel, H.A. and Silk, K.R. (1991). Short-term outcome of borderline personality. Presented to the 144th Annual Meeting of the American Psychiatric Association, New Orleans, May 11-16, 1991.
- Giordani, B., Berent, S. Koeppe, R.A., Foster, N.L., Buchtel, H.A., Kuhl, D.E., Frey, K.A. and Lehtinen, S.J. (1991). PET-FDG cerebral metabolic indices of memory impairment. Presented to the 5th World Congress of Biological Psychiatry, Florence Italy. Biological Psychiatry, 29, 11s:683S.
- Buchtel, H.A., Henry, T.R. and Abou-Khalil, B. (1992). Memory for neurological deficits during the intracarotid Amytal procedure: A hemispheric difference. Presented to the 20th

- Annual Meeting of the International Neuropsychological Society, San Diego CA, February 5-8, 1992. Journal of Clinical and Experimental Neuropsychology, 14, 96-97.
- Giordani, B., Berent, S., Koeppe, R.A., Foster, N.L., Buchtel, H.A., Boivin, M.J., Frey, K.A., and Kuhl, D.E. (1992). Memory and cerebral metabolism in Parkinson's Disease. Presented to the 20th Annual Meeting of the International Neuropsychological Society, San Diego CA, February 5-8, 1992. Journal of Clinical and Experimental Neuropsychology, 14, 60-61.
- Henry, T.R., Frey, K.A., Sackellares, J.C., Ross, D.A., Koeppe, R.A., Buchtel, H.A., Brunberg, J.A., Gilman, S., Berent, S. and Kuhl, D.E. (1992). Anterior mesial temporal benzodiazepine receptor decrease on [11C]Flumazenil PET agrees with multimodal localization of epileptogenesis in refractory complex partial seizures. Presented to the 1992 American Academy of Neurology Meeting, May, 1992. Neurology (1992).42:297-298
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- Ross, D.A., Henry, T.R., Gilman, S., Frey, K.A., Kuhl, D.E., Sackellares, J.C., Buchtel, H.A., Koeppe, R.A., Brunberg, J.A. and Berent, S. (1993). Correlation of anterior mesial temporal benzodiazepine receptor decrease on [11C]Flumazenil PET and multimodal localization of epileptogenesis in refractory complex partial seizures. Presented to the American Association of Neurological Surgeons, Boston MA, April 24-29, 1993. Abstracts of the Annual Meeting (1993), 151-152.
- Buchtel, H.A., Henry, T.R., Minoshima, S., Koeppe, R.A., and Ross, D.A. (1993). PET activation studies of object naming in normal and epilepsy surgery subjects. Presented to the Symposium on Cerebral Bases of Behaviour, Montreal, Canada, July 12, 1993.
- Buchtel, H.A., Henry, T.R., Minoshima, S., and Koeppe, R.A. (1993). PET activation studies of object naming in normal subjects. Presented to the Society for Neuroscience, Washington D.C., November 7-12, 1993. Abstracts of the Society for Neuroscience, 19, 1808.
- Zacharewicz, M., Pliskin, N., Neumann, C., Berent, S. and Buchtel, H.A. (1994). The utility of premorbid IQ estimates across mild and moderate dementia populations. Presented to the 22nd Annual Meeting of the International Neuropsychological Society, Cincinnati, OH, February 2-5, 1994.
- Henry, T.R., Buchtel, H.A., Minoshima, S., and Koeppe, R.A. (1994). Regional blood flow increases during naming in left temporal lobe epilepsy. Presented to the 46th Annual Meeting of the American Association of Neurology, Washington DC, May 10, 1994. Neurology (1994), 44:A351.
- Buchtel, H.A., Henry, T.R., Koeppe, R.A., and Minoshima, S. (1994). Sex differences and reproducibility of language activation patterns using Positron Emission Tomography (PET). Presented to the Annual Meeting of the Midwest Psychological Association, Chicago, IL, May 5-7, 1994.
- Buchtel, H.A. (1994). PET language activation studies of in epilepsy patients and matched normal controls. Invited presentation at the Institute of Physiology, Verona, Italy, June 28, 1994.
- Koeppe, R.A., Minoshima, S., Buchtel, H.A., and Henry, T.R. (1994). Enhanced detectability of CBF changes in PET [O-15] water activation studies of human cognition. Presented to the 1994 Annual Meeting of The Society of Nuclear Medicine, Orlando Florida, June 5-8, 1994.

- Johnson-Greene, D., Miller, T., Anderson, C., Adams, K.M. and Buchtel, H.A. (1995). Assessing and facilitating medical patients' knowledge of advance directives. Presented to the Annual Meeting of the Midwest Psychological Association, Chicago, IL, May 6-8, 1995
- Buchtel, H.A., Henry, T.R., Koeppe, R.A., and Minoshima, S. (1995). Epilepsy and PET activation with naming. Presented to the Annual Meeting of the American Psychological Association, New York, NY, August 7-11, 1995.
- Buchtel, H.A., Koeppe, R.A., Mountz, J., Foster, N.L., Berent, S., Giordani, B. and Kuhl, D.E. (1995). Cerebral blood flow changes in response to visual stimulation in demented patients. Presented to the Annual Meeting of the Society for Neuroscience, San Diego CA, November 11-16, 1995.
- Buchtel, H. A., Yamini, B., Brunberg, J. A. , Ross, D. A. , Selwa, L. M., Henry, T. R. and Gomez-Hassan, D. (1995). Memory performance and hippocampal volume. Presented to the Annual Meeting of the American Epilepsy Society, Baltimore Maryland, December 1-7, 1995.
- Varma, N.K., Schuh, L.A., Selwa, L., Buchtel, H.A. and Drury, I. (1995). Spectral analysis of EEG for guiding neuropsychometric testing during intracarotid amobarbital injection. Presented to the Annual Meeting of the American Epilepsy Society, Baltimore Maryland, December 1-7, 1995.
- Ai, A.L., Dunkle, R.E., Peterson, C., Bolling, S.F. and Buchtel, H.A. (1996). Effects of prayer on psychosocial adjustment following coronary artery bypass surgery (CABG). Presented to the 49th Annual Scientific Meeting of the Gerontological Society of America, Washington D.C., November 17-21, 1996.
- Buchtel, H.A. (1997). PET language activation studies of epilepsy patients before and after left temporal lobectomy. Invited presentation at the Institute of Human Physiology, Parma Italy, June 30, 1997.
- Kluin, K.J., Buchtel, H.A., Ross, D.A., Selwa, L.M., Schuh, L.A. and Drury, I. (1998). Differences in language outcome following intra-operative and extra-operative language mapping in dominant hemisphere temporal lobe medically refractory complex seizures. Presented to the 50th Annual Meeting of the American Academy of Neurology, Minneapolis, Minnesota, April 25-May 2, 1998.
- Buchtel, H.A. (1998). Golgi e la ricerca neuropsicologica contemporanea (neuropsychological research at the time of Camillo Golgi 1843-1926). Invited presentation to a meeting sponsored by the Turin Academy of Medicine to commemorate the centenary of Golgi's discovery of the internal reticular apparatus, Turin, Italy, November 24, 1998.
- Johnson, M., Buchtel, H.A., Zepelin, C. and Adams, K.M. (1999). An analysis of the Rey 15-item Visual Memory Test in elderly and non-elderly examinees. Presented to the 6th Annual Research Symposium, Department of Psychiatry, Medical College of Ohio. Toledo, Ohio. April 1, 1999.
- Minoshima, S., Kuhl, D.K., Cross, D.J., Buchtel, H.A., Pennell, P.B., Giordani, B., Berent, S., Foster, D.L., Ross, D.A., Henry, T.R. (1999). Does the entorhinal pathology explain the discordance between glucose metabolic and pathologic changes in very early Alzheimer's disease? Presented at the Brain99 Imaging Conference. June 1999.
- Buchtel, H.A. and Weisslitz, M. (1999). Hemispheric lateralization in face recognition. Presented to the Annual Meeting of the Society for Neuroscience, Miami FL, November October 23-29, 1999.

- Buchtel, H.A. and Badiani, A. (1999). Physiological Psychology before and after Golgi's histological technique, *Black Reaction*. Presented to the History of Neuroscience section of the Annual Meeting of the Society for Neuroscience, Miami FL, October 23-29, 1999.
- Buchtel, H.A., Selwa, L.M., Gomez-Hassan, D., Passaro, E., Ryan, K. and Deveikis, J. (1999). Brevital as anesthetic in the Wada Test for language and memory. Presented to the 53rd Annual Meeting of the American Epilepsy Society, Orlando FL, December 3-8, 1999.
- Nasreddine, W.M., Beydoun, A.A., Buchtel, H.A. and Minecan, D.N. (1999). Cognitive decline after epilepsy surgery in cryptogenic temporal lobe epilepsy. Presented to the 53rd Annual Meeting of the American Epilepsy Society, Orlando FL, December 3-8, 1999.
- Greenfield, L.J., Selwa, L.M., Fromes, G.A., Buchtel, H.A., Ross, D.A., Drury, I.J. and Henry, T.H. (1999). Presurgical IQ does not predict outcome of temporal lobectomy after intracranial long-term monitoring. Presented to the 53rd Annual Meeting of the American Epilepsy Society, Orlando FL, December 3-8, 1999.
- Bonesteel, K.R., Buchtel, H.A. and Ross, S. (2000). Predicting side of epileptogenic focus using weighted scores on neuropsychological tests. Presented to the 28th Annual Meeting of the International Neuropsychological Society, Denver CO February 9-12, 2000.
- Kluin, K.J., Passaro, E.A., Kutluay, E., Ross, D.A., Buchtel, H.A., Beydoun, A. (2000). Predictors of language outcome following dominant anterior temporal lobectomy (ATL). Presented to the 54th Annual Meeting of the American Epilepsy Society, Los Angeles CA, December 1-6, 2000.
- Johnson, M., Buchtel, H.A., Gordon, J. and Adams, K.M. (2001). Experience with brain injury and feigning impairment on the Rey 15-item test. Presented to the Annual Meeting of the International Neuropsychological Society, Chicago, IL, February 14-17, 2001.
- Buchtel, H.A. (2002). The use of half-brain anesthesia (Wada Test) in patients to study brain function. Invited lecture to the Chinese Academy of Sciences/Institute of Psychology, Beijing (December 24, 2002) and to the Cognitive Neuroscience seminar series at the Department of Psychology, Peking University, Beijing (December 26, 2002).
- Bogdanova, O., Buchtel, H., and Minecan, D. (2006), Memory Outcome after Left and Right Temporal Lobectomy in Patients with Symmetrical and Reversed WADA Memory Asymmetry Scores. Presented to the American Epilepsy Society Annual Meeting, San Diego, November 30-December 5, 2006
- Nagesh, V., Tsien, C., Buchtel, H., Sundgren, P., Chenevert, T., Junck, L., Rogers, L., Ross, B., Lawrence, T., and Cao, Y., (2007). Diffusion Tensor Imaging as a Biomarker for Early Prediction of the Delayed Radiation-Induced Neurocognitive Changes in Cerebral Tumor Patients. Presented at the Annual Meeting of the Society for Neuro-Oncology, November 15-18, 2007, Dallas TX.
- Buchtel, H.A. (2007). Paralytic strabismus in the cat: Effects on behaviour and visual cortical organization. Presented at "The Physiology of Mind", a workshop celebrating the scientific career of Giovanni Berlucchi, M.D. November 15-17, 2007, Pavia, Italy.
- Cao, Y., Tsien, C., Sundgren, P., Nagesh, V., Normolle, D., Buchtel, H., Junck, L., and Lawrence, T.S., (2008). DCE MRI as a biomarker for delayed radiation-induced neurocognitive dysfunctions. Presented at ASTRO Translational Advances in Radiation Oncology and Cancer Imaging Symposium, October 17-18, 2008, Arlington, Va.
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- Cao, Y., Feng, F., Tsien, C.I., Sundgren, S., Normolle, D., Buchtel, H., Junck, L., and Lawrence, T.S. (2009). Can sparing the hippocampus save memory functions after brain irradiation? *International Journal of Radiation Oncology• Biology• Physics*. 75 (3), S127-S128.
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- Buchtel, H.A., Tree, H., Kelly, D & Zepelin, C. (2012). Does the instruction "Do not lift your pencil" affect times for the Trail Making Test? Presented at the 40th annual meeting of the International Neuropsychological Society, Montreal, PQ, Canada. February, 2012.
- Beimer, N.J., Buchtel, H. & Glynn, S. (2014) Complication rates during the Wada Test: One center's Experience. Presented to the Annual Meeting of the American Epilepsy Society, Seattle WA, November 7, 2014. Presented also at the 26<sup>th</sup> Annual Silverman Conference, Department of Psychiatry, University of Michigan, April 27, 2016.
- Chapman, C.H., Buchtel, H., Lawrence, T.S., Tsien, C.I. and Cao, Y. (2015). Prospective assessment of neurocognitive outcomes following partial-brain radiation therapy to low grade tumors. Proceedings of the American Society for Radiation Oncology, 57<sup>th</sup> Annual Meeting, October 18-21, 2015. 93:E105-E106. <http://dx.doi.org/10.1016/j.ijrobp.2015.07.817>
- Buchtel, H.A. (2016). The Wada Test and fMRI in Presurgery Language and Memory Assessment: Is Newer Necessarily Better? Presented to the Annual Meeting of the American Psychological Association, Denver CO, August 4, 2016. *The Clinical Neuropsychologist* 01/2016; 30(5):713-713.
- Danoun, O., Beimer, N., Buchtel, H., Glynn, S., and Harris, D.: (2018 and 2019). Methohexital (Brevital)-induced lateralized periodic discharges during Wada test. Presented to the Annual Meeting of the American Epilepsy Society in New Orleans, LA on 12/2018 and at the ILAE international meeting in Bangkok, Thailand on 6/2019.
- Gotra, M. Y., Almy, B., Ng, R., Buchtel, H. A., Hodges, E. K., and Marshall, D. F. (2023). Sex differences in Wada Test memory performance in temporal lobe epilepsy. Presented to American Academy of Clinical Neuropsychology, Washington D.C., June 7-10, 2023.
- Gotra, M. Y., Ng, R., Buchtel, H. A., Hodges, E. K., and Marshall, D. F. (2023). Sex differences in pre- and postsurgical episodic memory in temporal lobe epilepsy. Presented to American Epilepsy Society, Orlando Florida, December 4, 2023.

**j. Research Publications in Clinical Journals**

Bocelli, G., Buchtel, H.A., Campari, G., Capretti, L. and DeRisio, C. (1978). Misure tachistoscopiche di tempi di reazione nei diabetici [*Tachistoscopic measures of reaction time in individuals with diabetes*]. Acta. Bio-Medica, 49, 265-268.

**k. Translations of Scientific Works (new to old)**

Aglioti, S.M. and Berlucchi, G. (in progress). *Neurophobia: Who is Afraid of the Brain?* Oxford: Oxford University Press (Translated from the Italian, “*Neurofobia: Chi ha Paura del Cervello?*”)

Mazzarello, P. (2009). *Golgi: A Biography of the Founder of Modern Neuroscience*. Oxford University Press, New York. (Translated in collaboration with Aldo Badiani, MD, from the Italian, *Il Nobel dimenticato: La vita e la scienza di Camillo Golgi*).

Mecacci, L. (1979). Brain and History: The relationship between Neurophysiology and Psychology in Soviet Research. New York: Brunner/Mazel. (Translated from the Italian, “Cervello e Storia”)