

Curriculum Vitae

William C. Heindel
Department of Psychology
Brown University

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Education:

B.S., Engineering, 1980
University of Wisconsin-Madison

Second Major, Psychology, 1983
University of Wisconsin-Madison

Ph.D., Neurosciences, 1989
University of California, San Diego

Professional Appointments:

Postgraduate Research Neuroscientist, 1989 - 1991
Alzheimer's Disease Research Center, Department of Neurosciences
University of California School of Medicine at San Diego

Assistant Research Psychobiologist, 1991 - 1992
Department of Psychiatry
University of California School of Medicine at San Diego

Assistant and Associate Professor, 1992 - Present
Department of Psychology
Brown University, Providence, Rhode Island

Associate Chair, 2001 - 2003
Department of Psychology
Brown University, Providence, Rhode Island

Associate Dean, 2003 - Present
Graduate School
Brown University, Providence, Rhode Island

Chair, 2005 - Present
Department of Psychology
Brown University, Providence, Rhode Island

Completed Research:

a. Chapters in Books:

- Butters, N., Salmon, D., Granholm, E., Heindel, W., and Lyon, L. Neuropsychological differentiation of amnesic and dementing states. In S. Stahl and S. Iversen (Eds.), Cognitive Neurochemistry (pp. 3-20). Oxford: Oxford University Press, 1987.
- Butters, N., Salmon, D., Heindel, W., and Granholm, E. Episodic, semantic, and procedural memory: Some comparisons of Alzheimer and Huntington disease patients. In R. Terry (Ed.), Aging and the Brain (pp. 63-87). New York: Raven Press, 1988.
- Heindel, W., Salmon, D., and Butters, N. Neuropsychological differentiation of memory impairments in dementia. In G. Gilmore, P. Whitehouse, and M. Wykle (Eds.), Memory and Aging. (pp. 112-139). New York: Springer Publishing Co., 1989.
- Butters, N., Salmon, D., and Heindel, W. Processes underlying the memory impairments of demented patients. In E. Goldberg (Ed.), Contemporary Neuropsychology and the Legacy of Luria. (pp. 99-126). New Jersey: Lawrence Erlbaum, 1990.
- Salmon, D., Heindel, W., and Butters, N. Patterns of cognitive impairment in Alzheimer's disease and other dementing disorders. In R. Lubinski (Ed.), Dementia and Communication (pp. 37-46). Philadelphia: BC Decker, 1991.
- Heindel, W., Salmon, D., and Butters, N. Alcoholic Korsakoff syndrome. In T. Yanagihara and R.C. Peterson (Eds.), Memory Disorders in Clinical Practice (pp. 227-253). New York: Marcel Dekker, 1991.
- Salmon, D., and Heindel, W.C. Impaired priming in Alzheimer's disease: Neuropsychological implications. In L.R. Squire and N. Butters (Eds.), Neuropsychology of Memory, 2nd edition (pp. 179-187). New York: Guilford Press, 1992.
- Salmon, D., Heindel, W., and Butters, N. Semantic memory, priming and skill learning in dementia of the Alzheimer type. In L. Backman (Ed.), Memory Functioning in Dementia (pp. 99-118). New York: Elsevier Press, 1992.
- Heindel, W., Salmon, D., and Butters, N. Cognitive Approaches to the memory disorders of demented patients. In P.B. Sutker and H.E. Adams (Eds.), Comprehensive Handbook of Psychopathology, 2nd edition. New York: Plenum Press, 1993.
- Salmon, D., Butters, N., and Heindel, W. Alcoholic dementia and related disorders. In R.W. Parks, R.F. Zec, and R.S. Wilson (Eds.), Neuropsychology of Alzheimer's Disease and other Dementias. New York: Oxford University Press, 1993.
- Heindel, W. Verbal priming and semantic memory in Alzheimer's disease: Degraded representation or impaired activation? In L. Cermak (Ed.), Neuropsychological Explorations of Memory and Cognition: A Tribute to Nelson Butters (pp. 45-59). New York: Plenum Press, 1994.
- Hesselink, J., Jernigan, T, and Heindel, W. Structural brain imaging of HIV infection. In I. Stein and A. Baum (Eds.), Chronic Diseases (pp. 57-78). New York: Oxford University Press, 1995.

Salmon, D., Lineweaver, T., and Heindel, W. Non-declarative memory in neurodegenerative diseases. In A. Tröster (Ed.), Memory in Neurodegenerative Diseases: Biological, Cognitive and Clinical Perspective (pp. 210-225). New York: Plenum Press, 1998.

Heindel, W., and Salmon, D. Cognitive Approaches to the memory disorders of demented patients. In P.B. Sutker and H.E. Adams (Eds.), Comprehensive Handbook of Psychopathology, 3rd edition. New York: Plenum Press, 2001.

Salmon, D, Heindel, W., and Hamilton, J. Cognitive abilities mediated by frontal-subcortical circuits. In D.G. Lichter and J.L. Cummings (Eds.), Comprehensive Frontal-Subcortical Circuits in Psychiatric and Neurologic Disorders. New York: Guilford Publications, Inc., 2001.

b. Refereed Journal Articles:

Heindel, W., Butters, N., and Salmon, D. Impaired learning of a motor skill in patients with Huntington's disease. Behavioral Neuroscience, 1988, 102, 141-147.

Beatty, W., Salmon, D., Butters, N., Heindel, W., and Granholm, E. Retrograde amnesia in patients with Alzheimer's disease or Huntington's disease. Neurobiology of Aging, 1988, 9, 181-186.

Salmon, D., Heindel, W., and Butters, N. Neuropsychological deficits in early Alzheimer's disease. Bulletin of Neurosciences, 1988, 55, 25-31.

Kihlstrom, J., Register, P., Hoyt, I., Albright, J., Grigorian, E., Heindel, W., and Morrison, C. Dispositional correlates of hypnosis: A phenomenological approach. International Journal of Clinical and Experimental Hypnosis, 1989, 37, 249-263.

Salmon, D., Kwo-On-Yuen, P., Heindel, W., Butters, N., and Thal, L. Differentiating Alzheimer's disease and Huntington's disease with the Dementia Rating Scale. Archives of Neurology, 1989, 46, 1204-1208.

Heindel, W., Salmon, D., Shults, C., Walicke., P. and Butters, N. Neuropsychological evidence for multiple implicit memory systems: A comparison of Alzheimer's, Huntington's and Parkinson's disease patients. Journal of Neuroscience, 1989, 9, 582-587.

Dupont, R., Jernigan, T., Butters, N., Delis, D., Hesselink, J., Heindel, W., and Gillin, J. Subcortical abnormalities detected in bipolar affective disorder using magnetic resonance imaging: Clinical and neuropsychological significance. Archives of General Psychiatry, 1989, 287, 373-392.

Heindel, W., Salmon, D., and Butters, N. Pictorial priming and cued recall in Alzheimer's and Huntington's disease. Brain and Cognition, 1990, 13, 282-295.

Salmon, D., Thal, L., Butters, N., and Heindel, W. Longitudinal evaluation of dementia of the Alzheimer type: A comparison of three standardized mental status examinations. Neurology, 1990, 40, 1225-1230.

Heindel, W., Salmon, D., and Butters, N. The biasing of weight judgments in Alzheimer's and Huntington's disease: A priming or programming phenomenon? Journal of Clinical and Experimental Neuropsychology, 1991, 13, 189-203.

- Caligiuri, M., Heindel, W., and Lohr, J. Sensorimotor disinhibition in Parkinson's disease: Effects of levodopa. Annals of Neurology, 1992, 31, 53-58.
- Paulsen, J., Butters, N., Salmon, D., Heindel, W., and Swenson, M. Prism adaptation in Alzheimer's and Huntington's disease. Neuropsychology, 1993, 7, 73-81.
- Butters, N., Salmon, D., and Heindel, W. Specificity of the memory deficits associated with basal ganglia dysfunction. Revue Neurologique, 1994, 150, 580-587.
- Peavy, G., Jacobs, D., Salmon, D., Butters, N., Delis, D., Taylor, M., Massman, P., Stout, J., Heindel, W., Kirson, D., Atkinson, J., Chandler, J., Grant, I. Verbal memory performance of patients with human immunodeficiency virus infection: Evidence of subcortical dysfunction. Journal of Clinical and Experimental Neuropsychology, 1994, 16, 508-523.
- Heindel, W., Jernigan, T., Archibald, S., Achim, C., Masliah, E., and Wiley, C. The relationship of quantitative brain MR measures to neuropathological indices of HIV infection. Archives of Neurology, 1994, 51, 1129-1135.
- Fennema-Notestine, C., Butters, N., Heindel, W., and Salmon, D. Semantic homophone priming in patients with dementia of the Alzheimer type. Neuropsychology, 1994, 8, 579-587.
- Dupont, R., Jernigan, T., Heindel, W., Butters, N., Shafer, K., Wilson, T., Hesselink, J., and Gillin, J. Magnetic resonance imaging and mood disorders: Localization of white matter and other subcortical abnormalities. Archives of General Psychiatry, 1995, 52, 747-755.
- Ostergaard, A., Heindel, W., and Paulsen, J. The biasing effect of verbal labels on memory for ambiguous figures in patients with progressive dementia. Journal of the International Neuropsychological Society, 1995, 1, 271-280.
- Stout, J., Salmon, D., Butters, N., Taylor, M., Peavy, G., Heindel, W., Delis, D., Ryan, L., Atkinson, J., Chandler, J., Grant, I., and the HNRC Work Group. Declines in working memory associated with HIV infection. Psychological Medicine, 1995, 25, 1221-1232.
- Becker, J., Caldararo, R., Baddeley, A., Dew, M., Heindel, W., Banks, G., Dorst, S., and Lopez, O. Methodological considerations in estimating speed of cognitive operations. Journal of the International Neuropsychological Society, 1995, 1, 3-9.
- Ott, B., Tate, C., Gordon, N., and Heindel, W. Gender differences in the behavioral manifestations of Alzheimer's disease. Journal of the American Geriatrics Society, 1996, 44, 583-587.
- Heindel, W., Cahn, D., and Salmon, D. Non-associative lexical priming is impaired in Alzheimer's disease. Neuropsychologia, 1997, 35, 1365-1372.
- Heindel, W., Salmon, D., Fennema-Notestine, C. and Chan, A. Repetition priming with non-verbal stimuli in patients with dementia of the Alzheimer type. Neuropsychology, 1998, 12, 43-51.
- Salmon, D., Heindel, W., and Lange, K. Differential decline in word generation from phonemic and semantic categories during the course of Alzheimer's disease: Implications for the integrity of semantic memory. Journal of the International Neuropsychological Society, 1999, 5, 692-703.

- Ott, B., Heindel, W., Whelihan, W., Caron, M., Piatt, A., and Noto, R. A SPECT imaging study of driving impairment in patients with Alzheimer's disease. Dementia and Geriatric Cognitive Disorders, 2000, 11, 153-160.
- Ott, B., Heindel, W., Tan, Z., and Noto, R. Lateralized cortical perfusion in women with Alzheimer's disease. The Journal of Gender-Specific Medicine, 2000, 3, 29-35.
- Ott, B., Heindel, W., & Papandonatos, G. A survey of voter participation by cognitively impaired elderly patients. Neurology, 2003, 60, 1546-1548.
- Ott, B., Heindel, W., Whelihan, W., Caron, M., Piatt, A., and DiCarlo, M. Maze test performance and reported driving ability in early dementia. Journal of Geriatric Psychiatry and Neurology, 2003, 16, 151-155.
- Festa-Martino, E., Ott, B., and Heindel, W. Interactions between phasic alerting and exogenous attentional orienting: Effects of normal aging and Alzheimer's disease. Neuropsychology, 2004, 18, 258-268.
- Strangman, G., Heindel, W., Anderson, J., and Sutton, J. Learning motor sequences with and without knowledge of governing rules. Neurorehabilitation and Neural Repair, 2005, 19, 93-114.
- Festa-Martino, E., Insler, R., Salmon, D., Paxton, J., Hamilton, J., and Heindel, W. Neocortical disconnectivity disrupts sensory integration in Alzheimer's disease. Neuropsychology, 2005, 19, 728-738.
- Grace, J., Amick, M., D'Abreu, A., Festa, E., Heindel, W., and Ott, B. Neuropsychological deficits associated with driving impairment in Parkinson's and Alzheimer's Disease. Journal of the International Neuropsychological Society, 2005, 11, 766-775.
- Gitten, J., Winer, J., Festa, E., and Heindel, W. Conditional associative learning of spatial and object information in children with attention deficit-hyperactivity disorder. Child Neuropsychology, 2006, 12, 39-56.
- Festa, E., Ott, B., and Heindel, W. Considering phasic alerting in Alzheimer's disease: Comment on Tales et al. (2006). Neuropsychology, 2006, 20, 757-760.
- Paxton, J., Peavy, G., Jenkins, C., Rice, V., Heindel, W., and Salmon, D. Deterioration of Visual-Perceptual Organization ability in Alzheimer's disease. Cortex, in press.
- Ott, B., Festa, E., Amick, M., Grace, J., Davis, J., and Heindel, W.. Computerized maze navigation and on-road performance by drivers with dementia. Journal of Geriatric Psychiatry and Neurology, in press.
- Wu, L., Neskovic, P., Reyes, E., Festa, E., and Heindel, W. Classifying n-back EEG data using entropy and mutual information features. ESANN, in press.

c. Non-Refereed Journal Articles:

- Butters, N., Heindel, W., and Salmon, D. Dissociation of implicit memory in dementia: Neurological implications. Bulletin of the Psychonomic Society, 1990, 28, 359-366.
- Rapp, P., and Heindel, W. Memory systems in normal and pathological aging. Current Opinion in Neurology, 1994, 7, 294-298.

Salmon, D. and Heindel, W. The effects of cortical and subcortical brain dysfunction on the cognitive presentation of dementing disorders. Neuroscience News, 1998, 1, 36-42.

Heindel, W. and Salloway, S. Memory systems in the human brain. Psychiatric Times, 1999, 16, 19-21.

d. Abstracts:

Heindel, W. and Butters, N. Motor skill learning in Huntington's disease. Soc. Neurosci. Abstr., 1986, p. 21.

Heindel, W., Butters, N., and Salmon, D. Impaired motor skill learning associated with neostriatal dysfunction. J. Clin. Exp. Neuropsychol., 1987, 9, 18 (Abstract).

Butters, N., Salmon, D., Heindel, W., Granholm, E., and Shimamura, A. Procedural learning in cortical and subcortical dementia. Neurology, 1987, 37 (Suppl. 1), p. 228.

Heindel, W., Salmon, D., Butters, N., and Shults, C. Impaired motor learning in Huntington's and Parkinson's diseases. Soc. Neurosci. Abstr., 1987, p. 646.

Salmon, D., Heindel, W., McCullough, D., Butters, N., and Grant, I. Neuropsychological impairments in patients with early- and late-onset Alzheimer's disease. Soc. Neurosci. Abstr., 1987, p. 442.

Heindel, W., Salmon, D., Butters, N., and Shults, C. Implicit memory in patients with Parkinson's disease. J. Clin. Exp. Neuropsychol., 1988, 10, 34 (Abstract).

Beatty, W., Salmon, D., Butters, N., Heindel, W., and Granholm, E. Retrograde amnesia in patients with Alzheimer's or Huntington's diseases. J. Clin. Exp. Neuropsychol., 1988, 10, 78 (Abstract).

Salmon, D., Kwo-On-Yuen, P., Heindel, W., Butters, N., and Thal, L. Neuropsychological differentiation of neuropathologically distinct dementias with a brief mental status examination. Soc. Neurosci. Abstr., 1988, 101.

Salmon, D., Kwo-On-Huen, P., Heindel, W., Thal, L., and Butters, N. Differentiation of Alzheimer's disease and Huntington's disease with the Dementia Rating Scale. J. Clin. Exp. Neuropsychol., 1989, 11, 87 (Abstract).

Heindel, W., Salmon, D., and Butters, N. Pictorial priming and weight biasing in dementia. Soc. Neurosci. Abstr., 1989, p. 343.

Heindel, W., Salmon, D., and Butters, N. Pictorial priming and adaptation-level effects in Alzheimer's and Huntington's disease. J. Clin. Exp. Neuropsychol., 1990, 12, 90 (Abstract).

Caliguiri, M., Heindel, W., and Lohr, J. Sensorimotor disinhibition in Parkinsonism. Soc. Neurosci. Abstr., 1990, p. 1316.

Salmon, D., Heindel, W. and Butters, N. Differential impairment of letter and category fluency in dementia of the Alzheimer type. J. Clin. Exp. Neuropsychol., 1991, 13, 50 (Abstract).

Paulsen, J., Salmon, D., Heindel, W., and Butters, N. The utility of the Wisconsin Card Sorting Test and the Selective Reminding Test in the detection and discrimination of dementia. J. Clin. Exp. Neuropsychol., 1991, 13, 65 (Abstract).

- Jacobs, D., Brandt, J., Salmon, D., Heindel, W., Troster, A., and Butters, N. Figural intrusion errors in dementia of mild and moderate severity. J. Clin. Exp. Neuropsychol., 1991, 13, 71 (Abstract).
- Caligiuri, M., Heindel, W., and Butters, N. Sensorimotor deficits in patients with dementia of the Alzheimer type. Neurology, 1991, 41 (Suppl 1), 406 (Abstract).
- Heindel, W., Jernigan, T., Salmon, D., and Butters, N. Brain structural correlates of cognitive performance in Alzheimer's disease. J. Clin. Exp. Neuropsychol., 1992, 14, 66 (Abstract).
- Cahn, D., Salmon, D., Heindel, W., and Butters, N. Intact priming performance in Alzheimer patients on a word-fragment completion task. Soc. Neurosci. Abstr., 1992, p. 734.
- Fennema-Notestine, C., Heindel, W., Salmon, D., and Butters, N. Semantic and presemantic contributions to priming in Alzheimer's disease. Soc. Neurosci. Abstr., 1992, p. 734.
- Paulsen, J., Butters, N., Heindel, W., and Salmon, D. Prism adaptation in Alzheimer's and Huntington's disease. J. Clin. Exp. Neuropsychol., 1992, 14, 19 (Abstract).
- Fennema-Notestine, C., Chan, A., Salmon, D., Heindel, W., and Butters, N. A comparison of reaction time and word stem-completion priming paradigms. J. Internat. Neuropsychol. Soc., 1995, 1, 386.
- Wang, P., Heindel, W., and Bellugi, U. Differential motor learning ability accompanies differential basal ganglia involvement in two neurodevelopmental disorders. J. Internat. Neuropsychol. Soc., 1995, 1, 382.
- Lineweaver, T., Heindel, W., Salmon, D., Rice, V., and Butters, N. Memory for motor movements in patients with Parkinson's disease. J. Internat. Neuropsychol. Soc., 1996, 2, 71.
- Lineweaver, T., Salmon, D., Heindel, W. and Paulson, J. Memory for motor movements in patients with Alzheimer's and Huntington's disease. J. Internat. Neuropsychol. Soc., 1997, 3, 74.
- Sinah, R., Heindel, W., and Ott, B. Category learning and recognition in Alzheimer's disease. J. Internat. Neuropsychol. Soc., 1997, 3.
- Sinha, R. W. Heindel, and Ott, B. Classification learning and recognition memory for prototype dot patterns in Alzheimer's disease. Soc. Neurosci. Abstr., 1997.
- Whelihan, W., Caron, M., Piatt, A., Ott, B., and Heindel, W. Neuropsychological predictors of driving ability in early-stage dementia. National Academy of Neuropsychology, 1997.
- Sinha, R. W. Heindel, and Welch, L. The Learning of categories: Evidence for retinotopic specificity. Soc. Neurosci. Abstr., 1998, p. 1898.
- Sinha, R., Heindel, W. and Ott, B. Category Learning and recognition memory in Alzheimer's disease. J. Internat. Neuropsychol. Soc., 1999.
- Ott, B., Heindel, W., Tan, Z., and Noto, R. Laterality differences in cerebral blood flow between men and women with Alzheimer's disease. Journal of Neuropsychiatry and Clinical Neurosciences, 1999.

- Heindel, W., Festa-Martino, E., and Ott, B. Retrieval from semantic memory: Differential Effects of aging and Alzheimer's Disease. Cognitive Neuroscience Society, 2000.
- Taylor, J. and Heindel, W. Priming perceptual and conceptual semantic knowledge: strategic and automatic effects. Cognitive Neuroscience Society, 2001.
- Festa-Martino, E., Heindel, W., and Ott, B. Differential effects of aging and Alzheimer's disease on selective attention and arousal. Association for Research in Vision and Ophthalmology (ARVO), 2001.
- Taylor, J. R., Rossion, B., & Heindel, W. C. (2001). Nonassociative Semantic Priming Reflected in the N400 Event-Related Potential Component. Poster presented at the Third International Conference on Memory (ICOM-3), Valencia, Spain, July 2001.
- Rissman, J., Heindel, W., and Festa-Martino, E. Orientation-specific holistic processing of human faces. Cognitive Neuroscience Society, 2001.
- Naor-Raz, G., Heindel, W., Tarr, M., and Ott, B. Object recognition impairments in Alzheimer's disease. Cognitive Neuroscience Society, 2001.
- Festa-Martino, E., Gindes, A., and Heindel, W. Driving and covert orienting: Differential effects of dual task conditions on selective attention and arousal. Vision Sciences Society, 2002.
- Festa-Martino, E., Insler, R., Salmon, D., Paxton, J., Hamilton, J., & Heindel, W. Impaired sensory integration in Alzheimer's disease. International Neuropsychological Society, 2003.
- Festa-Martino, E., Edesutani, C., Taylor, J., & Heindel, W. Phasic arousal selectively enhances sensory processing in exogenous orienting. Cognitive Neuroscience Society, 2003.
- Corriveau, K., Festa-Martino, E., Winer, J., Gitten, J., & Heindel, W. Dissociation Between Two Types of Word-Form Priming in Developmental Dyslexia. International Neuropsychological Society, 2003.
- Corriveau, K., Festa-Martino, E., Winer, J., Gitten, J., & Heindel, W. Increased Visual Persistence in Children and Adults with Developmental Dyslexia. International Neuropsychological Society, 2003.
- Winer, J., Gitten, J., Corriveau, K., Festa-Martino, E., & Heindel, W. Conditional Associative Learning for Spatial and Object Information in ADHD. International Neuropsychological Society, 2003.
- Taylor, J., Rosenblum, J., Ott, B., & Heindel, W. Semantic Processing and Word-Stem Completion Priming in Alzheimer's Disease. International Neuropsychological Society, 2003.
- Festa, E., Ebesutani, C., and Heindel, W. Phasic alerting and spatial orienting interact under peripheral but not central cuing conditions: Evidence for selective enhancement of sensory processing. Vision Sciences Society, 2004.
- Grace, J., Amick, M., D'Abreu, A., Festa, E., Heindel, W., and Ott, B. Relationship between neuropsychological tests and on road driving in Parkinson's disease. International Neuropsychological Society, to be held in 2005.

e. **Invited Lectures:**

- Workshop on Neurobehavioral Consequences of HIV Infection (Washington, DC), "The Quantitative Morphometric Analysis of Brain Structural Changes in Patients with HIV Infection." January, 1991.
- Psychology Department Colloquium, Bates College (Lewiston, ME), "Explicit and Implicit Memory in Cortical and Subcortical Dementia." January, 1992.
- Psychology Department Colloquium, Brown University, (Providence, RI). "Priming and Programming in Dementia: Identifying the Psychobiological Basis of Implicit Memory." February, 1992.
- Neurology Grand Rounds, Brown University School of Medicine and Rhode Island Hospital (Providence, RI), "Neuropsychological Differentiation of Memory Disorders in Dementia." October, 1992.
- Psychology Department Colloquium, Northwestern University (Evanston, IL). "Cognitive Approaches to the Study of Memory Disorders." April, 1993.
- Invited Address, Festschrift for Nelson Butters (San Diego, CA), "Verbal Priming and Semantic Memory in Alzheimer's Disease: Impaired Activation or Degraded Representation?" August, 1993.
- Workshop on Multiple Memory Systems in Alzheimer's Disease (Brescia, Italy), "Semantic Memory in Alzheimer's Disease." February, 1994
- Center for Behavioral Neuroscience Colloquium, State University of New York at Stony Brook (Stony Brook, NY). "Biasing and Facilitation Effects in Alzheimer's Disease: When will Implicit Memory be Spared or Impaired?" April, 1996.
- Psychology Department Colloquium, Connecticut College, (New London, CT). "The Neuropsychology of Implicit memory: Lessons from Alzheimer's Disease." December, 1999.
- Psychology Department Colloquium, Boston University (Boston, MA). "Implicit Memory in Alzheimer's Disease: When is it spared and when is it impaired?" April, 2002.
- Memory Disorders Research Center (Boston, MA). "Making Sense of Implicit Memory in Alzheimer's Disease." June, 2002.

f. Papers Read:

- Heindel, W. and Butters, N. Motor skill learning in Huntington's disease. Paper presented at the meeting of the Society for Neuroscience, Washington, D.C., November, 1986.
- Heindel, W., Butters, N., and Salmon, D. Impaired motor skill learning associated with neostriatal dysfunction. Paper presented at the meeting of the International Neuropsychological Society, Washington, D.C., February, 1987.
- Heindel, W., Salmon, D., Butters, N., and Shults, C. Impaired motor learning in Huntington's and Parkinson's diseases. Paper presented at the meeting of the Society for Neuroscience, New Orleans, November, 1987.
- Heindel, W., Salmon, D., Butters, N., and Shults, C. Implicit memory in patients with Parkinson's disease. Paper presented at the meeting of the International Neuropsychological Society, New Orleans, February, 1988.

Heindel, W., Salmon, D., and Butters, N. Pictorial priming and weight biasing in dementia. Paper presented at the meeting of the Society for Neuroscience, Phoenix, November, 1989.

Heindel, W., Salmon, D., and Butters, N. Pictorial priming and adaptation-level effects in Alzheimer's and Huntington's disease. Paper presented at the meeting of the International Neuropsychological Society, Orlando, February, 1990.

Heindel, W., Jernigan, T., Salmon, D., and Butters, N. Brain structural correlates of cognitive performance in Alzheimer's disease. Paper presented at the meeting of the International Neuropsychological Society, San Diego, February, 1992.

Heindel, W. Perceptual, lexical and semantic contributions to the repetition priming performance of patients with Alzheimer's disease. Paper presented at the meeting of the Memory Disorders Research Society, San Francisco, November, 1997.

Research in Progress:

Fennema-Notestine, C., Heindel, W., Chan, A., and Salmon, D. Repetition priming in lexical and semantic decision tasks in patients with dementia of the Alzheimer's type. Manuscript in preparation.

Festa-Martino, E., Insler, R., Salmon, D., Paxton, J., Hamilton, J., & Heindel, W. Impaired sensory integration in Alzheimer's disease. Manuscript in preparation.

Heindel, W., Corriveau, K., Festa-Martino, E., Winer, J., & Gitten, J. Dissociation Between Two Types of Word-Form Priming in Developmental Dyslexia. Manuscript in preparation.

Festa, E., Ebesutani, C., and Heindel, W. Phasic alerting and spatial orienting interact under peripheral but not central cuing conditions: Evidence for selective enhancement of sensory processing. Manuscript in preparation.

Heindel, W., Lineweaver, T., and Salmon, D. Recognition memory for movement patterns in patients with Alzheimer's disease: Contributions of verbal and kinesthetic information. Manuscript in preparation.

Sinha, R., Heindel, W., and Welch, L. The representation of categorical knowledge in visual cortex: Evidence for retinotopy. Manuscript in preparation.

Sinha, R., Ott, B., and Heindel, W. Classification learning and recognition memory for single-category prototype dot patterns in Alzheimer's disease. Manuscript in preparation.

Taylor, J. and Heindel, W. Priming perceptual and conceptual semantic knowledge: Strategic and automatic effects. Manuscript in preparation.

Service:

a. Service to the University:

Freshman Student Advisor, 1992 - 1994, 1998, 2002

Library Committee, 1992-1994

Sophomore Student Advisor, 1993 - 1994, 1996 - present

Psychology Honors Program Committee, 1993-1994, 1995-1996, 2005
Sc.B. Psychology Concentration Advisor, 1995 - 2001
Steering Committee, Undergraduate Concentration in Cognitive Neuroscience, 1995 – present
Cognitive Neuroscience Concentration Advisor, 1997 - present
Psychology Department Human Subject Pool Coordinator, 1995 – 2000
Executive Committee, Brain Science Program, 1999 – present
Computer Committee for Psychology, 2000 – 2001
Brochure Committee, Brain Science Program, 2001 - 2004
Training and Admissions Committee, Brain Sciences Program, 2000 – 2002
MRF Executive Committee, Brain Sciences Program, 2000 – 2004
MRI Training Committee, Brain Sciences Program, 2001 - 2004
Chair, Interdepartmental Advisory Committee for Psychology, 2000 – 2001
Curriculum Advisory Committee in Mind, Brain, and Behavior, 2001 - 2002
Brown Human Subjects Institutional Review Board (IRB), 2000 – present
Director of Graduate Studies, Psychology Department, 2000 – 2001
Cognitive & Linguistics Science Faculty Search Committee, 1999-2000, 2000-2001
Psychology Faculty Search Committee, 2000-2001, 2001-2002, 2002-2003
Psychology Colloquium Committee, 2001- 2003
Clinical Training Planning Committee, 2001 – 2003
Psychology Tenure Committee (Rebecca Burwell), 2001 – 2002
Clinical Neuroscience Faculty Search Committee, 2002 – 2003
Steering Committee, Center for Translational Brain Research, 2002 – 2004
Psychiatry/Psychology Relations Committee, 2002 – 2004
Psychology Curriculum Review Committee, 2004-present
Associate Director of Career Services Search Committee, 2004
Director of Foreign Students Office Search Committee, 2005

b. Service to the Profession:

Editorial Service:

Behavioral Neuroscience,
Biological Psychiatry
Brain
Cortex
Journal of Clinical and Experimental Neuropsychology
Journal of Experimental Psychology: General
Journal of the International Neuropsychological Society
Memory and Cognition
Neuropsychologia
Neuropsychology
Psychological Science
Psychopharmacology

Extramural Service:

Ad Hoc Reviewer, Department of Veterans Affairs Merit Review Grant,
Review Committee, National Institute of Neurological Disorders and Stroke

Review Committee, National Institute of Neurological Disorders and Stroke

Professional Societies:

Cognitive Neuroscience Society
Society for Neuroscience
Memory Disorders Research Society
American Statistical Association
Association for Psychological Science

Academic Honors, Fellowships, And Honorary Societies:

Phi Kappa Phi National Honor Society
Tau Beta Pi National Engineering Honor Society
B.S. degree with Honors and with Distinction
National Research Service Award
Memory Disorders Research Society
Sigma Xi Scientific Research Honor Society

Research Grants:

Graduate Research Fellowship, University of California, San Diego (1984 - 1985)

NRSA Predoctoral Fellowship, University of California, San Diego (1987-1988)

Co-Investigator: "Memory and Attentional Processes in HIV-Infected Patients."
\$109,456, 1990-1992. UC Task Force on AIDS R90SD041.

Co-Investigator, "Dual-Task Motor Performance in Alzheimer's Disease Patients With
and Without Extrapyrimal Motor Signs" (NIA ADRC Pilot Grant)
\$20,000; 7/01/91 - 6/30/92.

Co-Investigator: "Brain Imaging Correlates of Cognitive Decline in Aging and Dementia."
\$231,300, 1992-1995. Department of Veterans Affairs Merit Review.

Co-Investigator: "Cognitive Deficits Related to Chronic Alcoholism."
\$396,141 1992-1996. NIAAA 5 R01 AA00187.

Co-Investigator: "Determinants of Impaired Priming in Alzheimer's Disease."
\$317,576, 1992-1996. NIMH 1 R01 MH48819-01.

Principal Investigator: "Arousal, Attention and Priming in Alzheimer's Disease."
\$298,916; NIH 1 R01 AG15375-01; 4/01/99 - 03/31/03.

Principal Investigator, "Feature Integration and Attention in Alzheimer's Disease."
\$8,000; Salomon Faculty Research Award, Brown University; 3/01/99.

Co-Investigator, "Proposal for ERP Imaging Facility" ; Salomon Faculty Research Award, and
Burroughs Wellcome Interfaces Innovation Grant, Brown University, 3/01/00.

Co-Investigator, “A Longitudinal Study of Hazardous Drivers with Dementia” (NIA R01)
\$1,200,000; NIH 1 R01 AG16335; 9/15/01 – 8/31/05,

Principal Investigator (with Jerome Sanes), “Functional Imaging at Brown University.” \$1,000,000;
Falk Medical Research Trust; 12/01/02 – 12/31/05.

Principal Investigator, “Multisensory Integration in Alzheimer’s Disease”; \$19,200; Collaboration for
Translational Brain Research, Brown University, 10/01/03 – 10/31/04.

Principal Investigator, “Behavioral and Electrophysiological Investigation of Semantic Memory in
Alzheimer’s Disease”; \$182,160; Alzheimer’s Association, 10/01/03 – 9/30/06.

Principal Investigator (with Pedrag Neskovic), “Using Physiological Measurements and
Artificial Neural Networks to Monitor and Predict Cognitive States.”
\$81,620; Vice President for Research Seed Fund, Brown University; 3/01/05.