

CURRICULUM VITAE

Theodore R. Bashore, Jr.

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Business: School of Psychological Sciences
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University of Northern Colorado
Greeley, CO 80639
970-351-1751 (theodore.bashore@unco.edu)

CITIZENSHIP: U.S.A.

DATE OF BIRTH: January 31, 1946

EDUCATION:

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| 1976 | PhD | University of Colorado, Boulder (Major: Clinical Psychology; Minor: Biopsychology) |
| 1973 | MA | University of Colorado, Boulder (Clinical Psychology) |
| 1969 | BA | University of California, Los Angeles (Psychology) |

PROFESSIONAL EXPERIENCE:

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|--------------------|--|
| 8/16/92 - present | Professor, Department of Psychology, University of Northern Colorado |
| 4/1/02 - 10/1/06 | Consulting Psychologist, Chicago Cubs Professional Baseball Club |
| 7/1/97 - 6/00 | Adjunct Scientist, Moss Rehabilitation Research Institute |
| 11/1/96 - 10/1/02 | Consulting Psychologist, San Francisco Giants Professional Baseball Club |
| 10/16/94 - 1/31/95 | Visiting Professor, Department of Psychology, University of Amsterdam, The Netherlands, and Graduate School of Experimental Psychology, (University of Amsterdam, The Free University, and University of Leiden,) |

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| 8/16/91 - 8/15/92 | Associate Professor, Department of Psychology, University of Northern Colorado |
| 4/1/86 - 8/15/91 | Associate Professor, Department of Psychiatry and Center for Gerontological Research, The Medical College of Pennsylvania |
| 10/1/82 - 3/31/86 | Assistant Professor, Department of Psychiatry, The Medical College of Pennsylvania |
| 3/21/79 - 9/30/82 | Postdoctoral Research Fellow (Cognitive Psychophysiology Laboratory) to Visiting Assistant Professor (Clinical and Biological Divisions), Department of Psychology, University of Illinois at Urbana-Champaign |
| 9/1/76 - 3/30/79 | Assistant Professor, Department of Psychology, Union College, Schenectady, New York |
| 7/1/75 - 6/30/76 | Clinical Psychology Intern, VA Medical Center, Lebanon Pennsylvania |
| 9/1/74 - 5/15/75 | Teaching Assistant, Department of Psychology, University of Colorado, Boulder |
| 10/1/69 - 3/15/70 | Social Worker, Department of Public Social Services, Los Angeles, California |
| 3/15/66 - 4/10/71 | Professional baseball player, Atlanta Braves and New York Mets |

PROFESSIONAL ORGANIZATION MEMBERSHIP:

Society for Psychophysiological Research
 American Psychological Association
 Association for Psychological Science

RESEARCH GRANTS AND AWARDS:

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| 2007 | Award from SPARC and the College of Education and Behavioral Sciences for release from 2 classes, approximately \$12,000 |
| | Faculty Research and Publications Board, \$2250, support of pilot data collection for re-submission of "Dynamical analysis of age-induced cognitive slowing" |
| 2005-2006 | Grant Development Incentive Program Award, SPARC, UNC, approximately \$18,500 |
| 2005 | Principal investigator, National Institute on Aging, "Dynamical analysis of age-induced cognitive slowing", pending, approximately \$2,000,000 total costs |

- 2000 Summer Research Professor Program, "Traumatic brain injury and cognitive slowing: An ERP analysis", \$4500
- 1997 Principal Investigator, UNC Faculty Research and Publications Board, "Differential effects of older age on the structure and timing of neurocognitive processing", 2/1/97 to 6/30/98, \$2376 total costs
- Principal Investigator, Moss Rehabilitation Research Institute, "Attentional and motor neglect: Neurocognitive differentiation using ERP measures", 8/1/97 to 9/30/99, \$18,979 total costs
- 1996 Principal Investigator (with G.L. Morris and D. Gilliam), National Science Foundation Undergraduate Instrumentation and Laboratory Improvement Grant, "A behavioral neuroscience laboratory for the undergraduate psychology curriculum", 9/1/96-2/28/99, \$120,000, total costs
- 1994 Principal Investigator, National Institute on Aging Research Grant AG12263-01, "Neurocognitive aging assessed by somatosensory ERPs", 8/20/94 to 8/31/99, \$89,000, total costs
- UNC Research Development Fellowship, "Mental chronometry, neurocognitive aging, and intelligence", \$5000.
- 1992 Principal Investigator, UNC Faculty Research and Publications Board, "Neurocognitive aging assessed by somatosensory ERPs", 1/20/92 to 6/30/93, \$2500, total costs
- 1990 Co-Principal Investigator (with P.E. Rapp), Office of Contracts, CIA, "Dynamical Analysis of Brain Electrical Activity in the Detection of Deception", 2/1/90 to 10/30/91, approximately \$630,000, total costs
- 1988 Principal Investigator, Allegheny-Singer Block Grant, "Dynamical Analysis of Brain Electrical Activity", 7/1/88 to 6/30/89, \$17,874, direct costs
- Principal Investigator, National Institute on Aging Research Grant AG04581-02, "Age, Physical Fitness, and Information Processing Speed", 11/1/88-11/30/90, approximately \$60,000 per year, direct costs
- 1985 Principal Investigator, National Institute of Aging Research Grant AG04581-01A1, "Age, Physical Fitness, and Information Processing Speed", 9/1/85 to 8/31/88, approximately \$65,000 per year, direct costs
- Principal Investigator, National Institute of Mental Health Grant MH40627-01, "ERP/RT Analysis of Memory Retrieval in Schizophrenia", 7/1/85 to 6/30/86, \$15,000, direct costs

- 1981 Co-principal Investigator, Institutional Research Board, University of Illinois, "An Assessment of Additive Factors and Continuous Flow Models of Humans Information Processing", with M.G.H. Coles, \$3600.
- 1980 Co-principal Investigator, Institutional Research Board, University of Illinois, "On Validating Diagnostic Scales of Schizophrenia", with R.R.J. Lewine, \$3000.
- 1979 Associate Investigator, National Institute of Drug Abuse Research Grant DA02451, "Neuropharmacology of Drugs of Abuse: Amphetamines", G.V. Rebec, Principal Investigator, approximately \$55,000 per year direct costs through 1984

INVITED LECTURES:

New York State Psychiatric Institute, Columbia University Medical School, New York, The Samuel Sutton Psychophysiology and Psychopathology Colloquium, "Lifespan mental chronometry: An ERP analysis", February 24, 1998

School of Psychology, University of Ottawa, Ontario, Canada, "Lifespan changes in mental chronometry: Insights from chronopsychophysiology", February 13, 1998

Moss Rehabilitation Research Institute, Moss Rehabilitation Hospital, Philadelphia, PA, "Lifespan changes in neurocognitive processing speed: Unmasking process-specific changes using event-related brain potentials", April 11, 1997

Department of Psychology, Psychonomic Group, University of Amsterdam, The Netherlands, "Does aerobic fitness preserve mental processing speed across the lifespan?", January 19, 1995

NRS-LENA, Unite de Recherche en Psychophysiology Cognitive, Pathologie Psychiatrique et Neurologique, l'Hopital de Salpetriere, Paris, France, "Can the effects of age-related neurocognitive slowing be unmasked?", December 13, 1994

Department of Psychology, University of Amsterdam, The Netherlands, "The influence of advanced age on the speed of mental processing", November 18, 1994

Department of Psychology, Developmental Group, University of Amsterdam, The Netherlands, "Preservative effects of aerobic fitness on mental processing speed: Some preliminary observations", November 15, 1994

University of Northern Colorado, Department of Psychology, March, 1990, "Cognitive Psychophysiological Aging: The beneficial effects of aerobic fitness on age-related changes in mental processing speed"

Philadelphia Geriatric Center, Department of Medicine, May, 1987, "Cognitive psychophysiological analyses of mental slowing in the elderly"

Allentown State Psychiatric Hospital, September, 1986, "Event-related brain potential analyses of mental processing: Aging and schizophrenia"

Moss Rehabilitation Hospital, Drucker Brain Trauma Center, Philadelphia, January 1985, "The assessment of higher cognitive functioning in brain-damaged patients using event-related potentials"

Danville State Psychiatric Hospital, April, 1983, "Research update on the etiology of schizophrenia"

University of New Orleans, March, 1982, "The relationship between, handedness, handwriting posture and motor control: A test of the Levy and Reid model"

University of Illinois, Department of Psychology, Psychology Colloquium Series, March, 1982, "Is handwriting posture associated with differences in motor control?"

Columbia University, Department of Psychology, Psychology Colloquium Series, February, 1981, "The effects of amphetamine and various antipsychotic drugs on neuronal activity in the mesolimbic and nigro-neostriatal dopamine systems"

University of Illinois, Neural and Behavioral Biology Colloquium Series, September, 1980, "Hemispheric control of movement in left- and right-handers: A movement-related potential analysis"

Pennsylvania State University Medical School, Hershey, January, 1977, "Anatomical considerations in paranoid schizophrenic psychosis"

Rutgers University, New Brunswick, NJ, Department of Psychology, Psychology Colloquium Series, April, 1976, "Amphetamine-induced alterations of neuronal activity in the mesolimbic and nigro-neostriatal dopamine systems"

Pennsylvania State University Medical School, Hershey, December, 1975, "Neurobiological models of psychosis"

CONTRIBUTED PAPERS/CONFERENCE PARTICIPATION:

Bashore, T.R., Rapp, P.E., & Morris, G.L. "Dissociation of factor effects on reaction time and P300 latency in an Eriksen flanker task". Poster presented at 46th Annual Meeting of the Society for Psychophysiological Research, Vancouver, BC, Canada, October 28, 2006.

Ridderinkhof, K.R., Nieuwenhuis, S., & Bashore, T.R. A "gone fishing" hypothesis of response monitoring. Poster presented at the 41st Annual Meeting of the Society for Psychophysiological Research, Montreal, Canada, October, 2001.

Symposium Chair (with M.W. van der Molen), "Chronopsychophysiology 2000", presentation, "Chronopsychophysiology: Some interesting dissociations between ERP component latencies

and RT", 39th Annual Meeting of the Society for Psychophysiological Research, Granada, Spain, October 7, 1999

Osman, A., Albert, R., Kounios, J., Bashore, T., & Hasbroucq, T. Dynamics of brain activation during motor imagery. Talk presented at the 39th Annual Meeting of the Psychonomic Society, Dallas, TX, November, 1998.

Ridderinkhof, K.R., & Bashore, T.R.. Time gained may be time lost: Variations in the latency of the P200 component as a function of task demands, aging, exercise, and IQ. Paper presented at the symposium on "Variations of EEG and event-related brain potentials due to aging and prolonged work", Institute for Work Physiology, Dortmund, Germany, May 7-8, 1998.

Bashore, T.R.. Workshop participant, "Molecular, cellular and cognitive effects of exercise on the brain", presentation entitled "The effects of sustained aerobic fitness on protein kinase C activity and mental processing speed", 31st Winter Conference on Brain Research, Snowbird, UT, January 25, 1998

Bashore, T.R., Wang, H.-Y., & Friedman, E.. "Aerobic fitness in the elderly: The effects on protein kinase C activity and processing speed". Poster presented at the 37th Annual Meeting of the Society for Psychophysiological Research, October, 1997, Cape Cod, MA

Bashore, T.R.. "Speed of information processing and tested intelligence: A chronopsychophysiological analysis". Poster presented at the 36th Annual Meeting of the Society for Psychophysiological Research, October, 1996, Vancouver, B.C., Canada

Bashore, T.R., Martinerie, J., & Heffley, E.F.. "Do general slowing functions mask local slowing effects? A chronopsychophysiological analysis". Poster presented at the 35th Annual Meeting of the Society for Psychophysiological Research, October, 1995, Toronto, Ontario, Canada

Invited presentation, Experimenteel-Psychologische Onderzoekschool, The Netherlands, Workshop on Psychophysiology of Mental Resources, "Age, physical fitness, and speed of mental processing", Royal Netherlands Academy of the Arts and Sciences (KNAW), September, 1995

Ridderinkhof, K.R., van der Molen, M.W., & Bashore, T.R.. "The processing architecture for selective attention to multi-element stimuli: Concurrent attentive and automatic processes". Paper presented at the Royal Netherlands Academy of the Arts and Sciences (KNAW) Symposium "Discrete versus continuous processing of information", Amsterdam, The Netherlands, November, 1994

Symposium co-chair, 34th Annual Meeting of the Society for Psychophysiological Research, Atlanta, October, 1994, "Development and decline of the speed of mental processes across the lifespan: Integrative perspectives from cognitive psychology and cognitive psychophysiology"

Symposium participant, "Cognitive neuroscience studies of cognitive aging", Fifth Cognitive Aging Conference, Atlanta, April, 1994

Symposium participant, 32nd Annual Meeting of the Society for Psychophysiological Research, San Diego, October, 1992, "Probing the power of preparation: Central, autonomic and performance indices of selective activation and inhibition"

Osman, A., Bashore, T.R., Coles, M.G.H., Donchin, E., & Meyer, D.E.. "Response preparation based on partial information: Evidence from event-related motor potentials". Paper presented at the 29th Annual Meeting of the Psychonomic Society, November, 1989, Atlanta, Georgia

Symposium Chair (with R. Halliday), 28th Annual Meeting of the Society for Psychophysiological Research, San Francisco, October, 1988, "How times have changed: Advances in event-related potential chronometry"

Bashore, T.R., Martinerie, J., & Heffley, E.F.. "Preservation of mental processing speed in aerobically fit older men". Poster presented at the 28th Annual Meeting of the Society for Psychophysiological Research, San Francisco, October, 1988.

Bashore, T.R., & Osman, A. "On the temporal relation between perceptual analysis and response selection: A psychophysiological investigation of stimulus congruency and S-R compatibility effects on human information processing". Poster presented at the Fourth International Conference on Cognitive Neurosciences, Dourdan-Paris, France, June, 1987

Invited presentation, 7th Annual Conference, American Society for Clinical Evoked Potentials, April, 1987, Philadelphia, PA, "Age-related slowing of mental processing speed revealed by analyses of event-related brain potentials"

Symposium Chair, 13th Northeast Bioengineering Conference, Drexel University, Philadelphia, March, 1987, "Biological Signal Analysis"

Symposium participant, 39th Annual Scientific Meeting of the Gerontological Society of America, Chicago, November, 1986, "Exercise and Aging"

Invited presentation, Evoked Potential International Congress (EPIC) VIII, Stanford University, Palo Alto, CA, June, 1986, "Age-related declines in mental processing assessed by event-related brain potentials"

Albano, A.M., Abraham, N.B., deGuzman, G.C., Tarroja, M.F.H., Brandy, D.K., Gioggia, R.S., Rapp, P.E., Zimmerman, I.D., Greenbaum, N.N., & Bashore, T.R. "Lasers and brains: Complex system with low dimensional attractors". Paper presented at the International Workshop on Dimensions and Entropies in Chaotic Systems, Los Alamos, NM, August, 1985

Gratton, G., Coles, M.G.H., Bashore, T.R., Eriksen, C.W., & Donchin, E. "An ERP/EMG/RT approach to the continuous flow model of cognitive processes". Poster presented at the Evoked Potential International Congress (EPIC) VII, Florence, Italy, September, 1983

Panel member, Fifth Carmel Conference on Cognitive Psychophysiology, Carmel, California, January, 1983, "Monitoring normal aging"

Marshall, N.K., Bashore, T.R., Miller, G.A., Coles, M.G.H., & Donchin, E.. ERP consistency in young and elderly subjects. Poster presented at the 23rd Annual Meeting of the Society for Psychophysiological Research, Dallas, October, 1983

Symposium participant, 35th Annual Scientific Meeting of The Gerontological Society of America, Boston, November, 1982, "Exercise as the fountain of youth: facts and fiction"

Magliero, A., Bashore, T., Coles, M., & Donchin, E.. "P300 latency and reaction time from a visual search task with varying levels of noise and S-R compatibility". Poster presented at the 22nd Annual Meeting of the Society for Psychophysiological Research, Minneapolis, October, 1982

Karis, D., Bashore, T.R., Fabiani, M., & Donchin, E.. "P300 and memory". Poster presented at the 21st Annual Meeting of the Society for Psychophysiological Research, Washington, DC, October, 1981

Symposium participant, Evoked Potential International Congress (EPIC) VI, Lake Forest, Illinois, June, 1981, "Movement-related potentials and motor control"

Bashore, T.R., McCarthy, G., Heffley, E.F., Clapman, R.C., & Donchin, E. "A psychophysiological analysis of the hypothesis that motor control is ipsilateral in persons who write using the inverted hand posture". Poster presented at the Evoked Potential International Congress (EPIC) VI, Lake Forest, Illinois, June, 1981

Alloway, K.D., Rebec, G.V., & Bashore, T.R. "Differential actions of classical and atypical antipsychotic drugs on neurons in the amygdaloid complex". Poster presented at the 10th Annual Meeting of the Society for Neuroscience, Cincinnati, November, 1980

SUMMARY OF EXPERIENCE:

Teaching:

- (1) Union College (Undergraduate--Introductory Psychology, Psychological Assessment, Biopsychology (Introductory and Advanced))
- (2) University of Illinois (Graduate--Clinical practica supervision, Psychological Assessment, Psychopharmacology; Undergraduate--Abnormal Psychology)
- (3) University of Northern Colorado (Graduate--Introduction to Neuropsychology, Special Topics in Neurocognition, History and Systems of Psychology; Undergraduate--Abnormal Psychology, Theories of Personality, Physiological Psychology)
- (4) University of Amsterdam (Graduate/Postdoctoral Seminar--Neurocognitive Aging)

Clinical:

- (1) Clinical practica, University of Colorado (Individual adult and child psychotherapy; community mental health)
- (2) Clinical internship (Diagnosis/assessment of adult and childhood disorders; individual and group psychotherapy with psychiatric in- and out-patients, and with medical/surgical in-patients)
- (3) HMO and Preferred Care Psychotherapist, The Medical College of Pennsylvania at EPPI, September 1, 1983 to August 15, 1991
- (4) Private practice in adult psychotherapy 1985 to 1991

Clinical/Supervisory:

- (1) Beginning and intermediate level graduate student psychotherapists, University of Illinois, 1980-1981

FACULTY COMMITTEES:

Medical College of Pennsylvania
College Computer Committee, 1984-1990 (Chair, 1985-1988)
Research Committee, 1989-1990

University of Northern Colorado
Graduate (Department), 1991-1999
Search and Screen (Department)
Academic Technology (College of Arts & Sciences), 1993-2005

STATE LICENSURE:

Pennsylvania (License: PS-4499-L; ID: 50006)

HONORS RECEIVED:

Postdoctoral research fellowship, 1979-1980, Psychophysiology Training Program, University of Illinois at Urbana-Champaign
National Institute of Mental Health Fellowship, 1971-1974, University of Colorado

ASSOCIATE EDITOR:

Acta Psychologica (January 1, 1992--present)

CONSULTING EDITOR:

Acta Psychologica

American Journal of Psychology
Behavior Research Methods, Instruments, & Computers
Biological Psychiatry
Biological Psychology
Contemporary Psychology
Cortex
International Journal of Psychophysiology
Journal of Gerontology: Medical Sciences
Journal of Gerontology: Psychological Sciences
Journal of Psychophysiology
Life Sciences
Microscopy Research and Techniques
Neurobiology of Aging
Perception and Psychophysics
Psychological Bulletin
Psychology and Aging
Psychopharmacology
Psychophysiology
Science

REVIEWER--SPECIAL VOLUMES:

Encyclopedia of Gerontology, Harcourt Brace & Company

REVIEWER--TEXTBOOKS/EDITED VOLUMES:

Brooks-Cole
Academic Press

REVIEWER--GRANTS:

National Science Foundation (Special)
National Institute of Mental Health (Special)
National Institute on Aging (Special)
National Institutes of Health, Neurology A (Special)
National Institutes of Health, BBBP-4
Veterans Administration (ad hoc)
Small Business Administration Innovative Research Program (ad hoc)

DOCTORAL DISSERTATION:

Amphetamine, antipsychotic drugs, and neuronal activity in the nigrostriatal and mesolimbic dopamine systems. Accepted by the Graduate School, University of Colorado, August, 1976 (Philip M. Groves, Chairman)

POSTDOCTORAL RESEARCH FELLOWS:

Allen Osman (University of Michigan), 1986-1988
Yossi Guterman (University of Haifa), 1989-1991
Philip Goddard (Maharishi International University), 1990-1991

PUBLICATIONS

Original Articles

Bashore, T.R. Case study: A clinical psychologist's work with a severely brain-damaged patient. *Newsletter for Research in Mental Health and Behavioral Sciences*, 1976, Vol XVIII, 23-24.

Bashore, T.R., Rebec, G.V., & Groves, P.M. Alterations of spontaneous neuronal activity in the caudate-putamen, nucleus accumbens, and amygdaloid complex of rats produced by d-amphetamine. *Pharmacology, Biochemistry, and Behavior*, 1978, 8, 467-474.

Bashore, T.R. A clinical psychologist's work with a severely brain damaged patient: A case study. *Rehabilitation Psychology*, 1979, 26, 193-200.

Rebec, G.V., Bashore, T.R., Zimmerman, K., & Alloway, K.D. "Classical" and "atypical" antipsychotic drugs: Differential antagonism of amphetamine- and apomorphine-induced alterations of spontaneous neuronal activity in the neostriatum and nucleus accumbens. *Pharmacology, Biochemistry, and Behavior*, 1979, 11, 529-538.

Rebec, G.V., Bashore, T.R., Zimmerman, K., & Alloway, K.D. Neostriatal and mesolimbic neurons: Dose-dependent effects of clozapine. *Neuropharmacology*, 1980, 19, 281-288.

Rebec, G.V., Alloway, K.D., & Bashore, T.R. Differential effects of "atypical" and "classical" antipsychotic drugs on spontaneous neuronal activity in the amygdaloid complex. *Pharmacology, Biochemistry, and Behavior*, 1981, 14, 49-56.

Bashore, T.R. Vocal and manual reaction time estimates of interhemispheric transmission time. *Psychological Bulletin*, 1981, 89, 352-368.

Rebec, G.V., & Bashore, T.R. Comments on "Amphetamine Models of Paranoid Schizophrenia": A precautionary note. *Psychological Bulletin*, 1982, 92, 403-409.

Bashore, T.R., McCarthy, G., Heffley, E.F., Clapman, R.C., & Donchin, E. Is handwriting posture associated with differences in motor control? An analysis of asymmetries in the readiness potential. *Neuropsychologica*, 1982, 20, 327-346.

Bashore, T.R., Nydegger, R.V., & Miller, H. Left visual field superiority on a vocal naming task by both left- and right-handers. *Cortex*, 1982, 8, 245-256.

Rebec, G.V., Gelman, J., Alloway, K.D., & Bashore, T.R. Cataleptogenic potency of the antipsychotic drugs is inversely correlated with neuronal activity in the amygdaloid complex. *Pharmacology, Biochemistry, and Behavior*, 1983, 19, 759-763.

Rebec, G.V., & Bashore, T.R. Critical issues in assessing the behavioral effects of amphetamine. *Neuroscience and Biobehavioral Reviews*, 1984, 8, 153-159.

Magliero, A., Bashore, T.R., Coles, M.G.H., & Donchin, E. On the dependence of P300 latency on stimulus evaluation processes. *Psychophysiology*, 1984, 21, 171-186.

Coles, M.G.H., Gratton, G., Bashore, T.R., Eriksen, C.W., & Donchin, E. A psychophysiological investigation of the continuous flow model of human information processing. *Journal of Experimental Psychology: Human Perception and Performance*, 1985, 11, 529-553.

Morrison, R.L., Bellack, A.S., & Bashore, T.R. Emotional perception in schizophrenic patients. *Journal of Psychopathology and Behavior Assessment*, 1988, 10, 319-332.

Bashore, T.R., Osman, A.O., & Heffley, E.F. Mental slowing in elderly persons: A cognitive psychophysiological analysis. *Psychology and Aging*, 1989, 4, 235-244.

Rapp, P.E., Bashore, T.R., Martinerie, J.M., Albano, A.M., & Mees, A.I. Dynamics of brain electrical activity. *Brain Topography*, 1989, 2, 99-118.

Bashore, T.R., & van der Molen, M.W. Discovery of the P300: A tribute. *Biological Psychology*, 1991, 32, 155-171.

Osman, A., Bashore, T.R., Coles, M.G.H., Donchin, E., & Meyer, D.E. On the transmission of partial information: Inferences from movement-related brain potentials. *Journal of Experimental Psychology: Human Perception and Performance*, 1992, 18, 217-232.

Guterman, Y., Josiassen, R.C., & Bashore, T.R. Attentional influence on the P50 component of the auditory event-related brain potential. *International Journal of Psychophysiology*, 1992, 12, 197-209.

Bashore, T.R., & Rapp, P.E. Are there alternatives to traditional polygraphic procedures? *Psychological Bulletin*, 1993, 113, 3-22.

Farwell, L.A., Martinerie, J.M., Bashore, T.R., Rapp, P.E., & Goddard, P.H. Optimal digital filters for long latency components of the event-related brain potential. *Psychophysiology*, 1993, 30, 306-315.

Bashore, T.R. Some thoughts on neurocognitive slowing. *Acta Psychologica*, 1994, 86, 295-325.

Wang, H.-Y., Bashore, T.R., & Friedman, E. Exercise protects age-dependent increase in platelet protein kinase C activity and translocation. *Journal of Gerontology: Medical Sciences*, 1995, 50A, M12-M17.

Ridderinkhof, K.R., van der Molen, M.W., & Bashore, T.R. Limits on the application of additive factors logic: Violations of stage robustness suggest a dual-process architecture to explain flanker effects on target processing. *Acta Psychologica*, 1995, 90, 29-48.

Smulders, F., Kok, A., Kenemans, L., & Bashore, T.R. The temporal specificity of factor effects on the reaction process revealed in ERP component latencies. *Acta Psychologica*, 1995, 90, 97-109.

Guterman, Y., Josiassen, R.C., Bashore, T.R., Johnson, M., & Lubow, R.E. Latent inhibition effects reflected in event-related brain potentials in healthy controls and schizophrenics. *Schizophrenia Research*, 1996, 20, 313-326.

Ridderinkhof, K.R., van der Molen, M.W., Band, G.P.H., & Bashore, T.R. Sources of interference from irrelevant information: A developmental study. *Journal of Experimental Child Psychology*, 1997, 65, 315-341.

Bashore, T.R., van der Molen, M.W., Ridderinkhof, K.R., & Wylie, S. Is the age-complexity effect mediated by reductions in a general processing resource? *Biological Psychology*, 1997, 45, 263-282.

Bashore, T.R., Ridderinkhof, K.R., & van der Molen, M.W. The decline of cognitive processing speed in older age. *Current Directions in Psychological Science*, 1997, 6, 163-169.

Wang, H.-Y., Bashore, T.R., Tran, Z., & Friedman, E. Age-related decreases in lymphocyte protein kinase C activity and translocation are reduced by aerobic fitness. *Journal of Gerontology: Biological Sciences*, 2000, 11, B545-B551.

Bashore, T.R., & Ridderinkhof, K.R. Older age, traumatic brain injury, and cognitive slowing: Some convergent and divergent findings. *Psychological Bulletin*, 2002, 128, 151-198 .

Watanabe, T.A.A., Cellucci, C.J., Kohegyi, E., Bashore, T.R., Josiassen, R.C., Greenbaun, N.N., & Rapp, P.E. The algorithmic complexity of multichannel EEGs is sensitive to changes in behavior. *Psychophysiology*, 2003, 40, 77-97.

Ridderinkhof, K.R., Nieuwenhuis, S., & Bashore, T.R. Errors are foreshadowed in brain potentials associated with action monitoring in cingulate cortex. *Neuroscience Letters*, 2003, 348, 1-4.

Wylie, S.A., Stout, J.C., & Bashore, T.R. Activation of conflicting responses in Parkinson's disease: Evidence for degrading and facilitating effects on response time. *Neuropsychologia*, 2005, 43, 1033-1043.

Bashore, T.R., & Hernandez, J.R. (in press). Theories of personality. *Encyclopedia of Counseling Psychology*. Sage Publications.

O'Shea, M. G., & Bashore, T.R. The legacy of F.C. Donders. *History of Psychology* (under review).

Manuscripts in preparation

Bashore, T.R., & Ridderinkhof, K.R. Dissociations of factor effects on P300 latency and reaction time reveal differential age-induced neurocognitive slowing.

Bashore, T.R., & Ridderinkhof, K.R. The case against generalized slowing.

Bashore, T.R., Rapp, P.E., & Morris, G.L. Beneficial limits on focused visual attention.

Bashore, T.R., Ridderinkhof, K.R., van der Molen, M.W., Martinerie, J.M., & Heffley, E.F. Does long-term aerobic fitness preserve neurocognitive processing speed in older men?

Bashore, T.R., Ridderinkhof, K.R., van der Molen, M.W., Martinerie, J.M., & Heffley, E.F. Tested intelligence is associated with process-specific not general advantages in neurocognitive processing speed.

Wylie, S., Bashore, T.R., Ridderinkhof, K.R., & van der Molen, M.W. A meta-analytic survey of the additive factors literature.

Bashore, T.R.. Differential influences of older age on inhibition: Perspectives from cognitive neuroscience.

Book Chapters

Deecke, L., Bashore, T.R., Brunia, C., Grunewald, G., Grunewald-Zuberbier, E., Kristeva, R., and Papakostopoulos, D. Movement-associated potentials and motor control. In **Brain Potentials and Information**, R. Karrer, J. Cohen, & P. Tueting (Eds.), New York: Annals of the New York Academy of Sciences, 1984, 425, pp. 398-428.

Albano, A.M., Abraham, N.B., deGuzman, G.C., Tarroja, M.F.H., Brandy, D.K., Gioggia, R.S., Rapp, P.E., Zimmerman, I.D., Greenbaun, N.N., & Bashore, T.R. Lasers and brains: Complex systems with low dimensional attractors. In **Dimensions and Entropies in Chaotic Systems**, New York: Springer-Verlag, 1986, pp. 231-240.

Donchin, E., Karis, D., Bashore, T.R., Coles, M.G.H., & Gratton, G. Cognitive psychophysiology and human information processing. In **Psychophysiology: Systems, Processes, and Applications**, M.G.H. Coles, E. Donchin, & S.W. Porges (Eds.), New York: Guilford Press, 1986, pp. 244-267.

Rapp, P.E., Zimmerman, I.D., Albano, A.M., deGuzman, G.C., Greenbaum, N.N., & Bashore, T.R. Experimental studies of chaotic neural behavior: Cellular activity and electroencephalographic signals. In **Nonlinear Oscillations in Chemistry and Biology**, H.G. Othmer (Ed.), New York: Springer-Verlag, 1986, pp. 175-207.

Albano, A.M., Smilowitz, L., Rapp, P.E., deGuzman, G.C., & Bashore, T.R. Dimension calculations in a minimal embedding space: Low dimensional attractors for human electroencephalograms. In **The Physics of Phase Space: Nonlinear Dynamics and Chaos, Geometric Quantization, and Wigner Function**, Y.S. Kim & W.W. Zachary (Eds.), New York: Springer-Verlag, 1986, pp. 15-17.

Miller, G.A., Bashore, T.R., Farwell, L.A., and Donchin, E. Review of geriatric psychophysiology. In **The Annual Review of Gerontology and Geriatrics, Volume 7**, K.W. Schaie (Ed.), New York: Springer-Verlag, 1987, pp. 1-27.

Bashore, T.R. Age, physical fitness, and mental processing speed. In **The Annual Review of Gerontology and Geriatrics, Volume 9**, M.P. Lawton (Ed.), New York: Springer-Verlag, 1989, pp. 120-144.

Bashore, T.R. Age-related changes in mental processing revealed by analyses of event-related brain potentials. In **Event-related Brain Potentials: Basic Issues and Applications**, J. Rohrbaugh, R. Parasuraman, & R. Johnson (Eds.), New York: Oxford University Press, 1990, pp. 242-278.

Bashore, T.R. S-R compatibility viewed from a cognitive psychophysiological perspective. In **Stimulus-Response Compatibility: An Integrated Perspective**, R.W. Proctor & T.G. Reeve (Eds.), Amsterdam: North-Holland, 1990, pp. 183-224.

Rapp, P.E., Bashore, T.R., Zimmerman, I.D., Martinerie, J.M., Albano, A.M., & Mees, A.I. Dynamical characterization of brain electrical activity. In **The Ubiquity of Chaos**, S. Krasner (Ed.), Washington, DC: AAAS, 1990, pp. 10-22.

van der Molen M.W., Bashore, T.R., Halliday, R.F., & Callaway, E. Chronopsychophysiology: Mental chronometry augmented by psychophysiological time markers. In **Handbook of Cognitive Psychophysiology**, J.R. Jennings & M.G.H. Coles (Eds.), New York: J. Wiley & Sons, 1991, pp. 9-178.

Bashore, T.R. Differential effects of aging on the neurocognitive functions subserving speeded mental processing. In **Adult Information Processing: Limits on Loss**, J. Cerella, J. Rybash, W. Hoyer, & M.L. Commons (Eds.), New York: Academic Press, 1993, pp. 37-76.

Bashore, T.R. & Goddard, P.H. Preservative and restorative effects of aerobic fitness on the age-related slowing of mental processing speed in the elderly. In **Adult Information Processing: Limits on Loss**, J. Cerella, J. Rybash, W. Hoyer, & M.L. Commons (Eds.), New York: Academic Press, 1993, pp. 205-228.

Ridderinkhof, R. & Bashore, T.R. Using event-related brain potentials to draw inferences about human information processing. In **Age differences in word and language processing**, P.A. Allen & T.R. Bashore (Eds.), Amsterdam: North-Holland, 1995, pp. 295-314.

Bashore, T.R. & Smulders, F. Do general slowing functions mask local slowing effects? A chronopsychophysiological perspective. In **Age differences in word and language processing**, P.A. Allen & T.R. Bashore (Eds.), Amsterdam: North-Holland, 1995, 391-426.

Bashore, T.R., Ridderinkhof, K.R., & van der Molen, M.W. Lifespan studies of mental chronometry: Insights derived from chronopsychophysiology. **The other side of the error term**, N. Raz (Ed.). Amsterdam: North-Holland, 1998, pp. 197-259.

Ridderinkhof, K. R., Bashore T. R., van der Molen, M. W., & Band, G. P. H. (1999). The speed of information processing: Qualitative versus quantitative changes with age. In **Cognitive Changes due to Aging and Fatigue as revealed in the Electric Brain Activity**, M. Falkenstein, J. Hohnsbein, & P. Ullsperger (Eds.), Dortmund, Germany: Bundesanstalt fuer Arbeitsschutz und Arbeitsmedizin, 1999, 172-182.

Edited Volumes

Bashore, T.R., & van der Molen, M.W. (Eds.). **Life-span changes in human performance.** *Acta Psychologica (Special Edition)*, 1994, 86, 105-327.

Allen, P.A. & Bashore, T.R. (Eds.). **Age differences in word and language processing.** Amsterdam: North-Holland, 1995.

Abstracts

Karis, D., Bashore, T.R., Fabiani, M., & Donchin, E. P300 and memory. *Psychophysiology*, 1982, 18, 328.

Magliero, A., Bashore, T., Coles, M., & Donchin, E. P300 latency and reaction time from a visual search task with varying levels of noise and S-R compatibility. *Psychophysiology*, 1982, 19, 572-573.

Marshall, N.K., Bashore, T.R., Miller, G.A., Coles, M.G.H., & Donchin, E. ERP consistency in young and elderly subjects. *Psychophysiology*, 1983, 20, 422.

Gratton, G., Coles, M.G.H., Bashore, T.R., Eriksen, C.W., & Donchin, E. An ERP/EMG/RT approach to the continuous flow model of cognitive processes. In W.C. McCallum, R. Zappoli, & F. Denoth (Eds.), **Cerebral psychophysiology: Studies in event related potentials (Supp. 38)**, *Electroencephalography and Clinical Neurophysiology*, Amsterdam: Elsevier, 1986, pp. 118-120.

Bashore, T.R., Martinerie, J.M., Weiser, P.C., Greenspon, L.C., & Heffley, E.F. Preservation of mental processing speed in aerobically fit older men. *Psychophysiology*, 1988, 25, 433-434.

Osman, A., Bashore, T.R., Coles, M.G.H., Donchin, E., & Meyer, D.E. A psychophysiological study of response preparation based on partial information. *Psychophysiology*, 1988, 25, 426.

Bashore, T.R. S-R compatibility: Analyses of processes and structures yielding inhibitory effects. *Psychophysiology*, 1992, 29 (supplement), S8-S9.

Bashore, T.R. Decline of processing speed in late adulthood: Integrative perspectives from cognitive psychology and cognitive psychophysiology. *Psychophysiology*, 1994, 31 (supplement), S15-S17.

Bashore, T.R., Martinerie, J., & Heffley, E.F. Do general slowing functions mask local slowing effects? A chronopsychophysiological analysis. *Psychophysiology*, 1995, 32 (supplement), S18.

Bashore, T.R. Speed of processing and tested intelligence: A chronopsychophysiological analysis. *Psychophysiology*, 1996, 33 (supplement), S21.

Bashore, T.R., Wang, H.-Y., & Friedman, E. Aerobic fitness in the elderly: The effects on protein kinase C activity and processing speed, *Psychophysiology*, 1997, 34 (supplement), S19.

Bashore, T.R. Chronopsychophysiology: Some interesting dissociations between ERP component latencies and RT. *Psychophysiology*, 1999, 36 (supplement).

Ridderinkhof, K.R., Nieuwenhuis, S., & Bashore, T.R. A "gone fishing" hypothesis of response monitoring. *Psychophysiology*, 2001, S63.

Bashore, T.R., Rapp, P.E., & Morris, G.L. Dissociation of factor effects on reaction time and P300 latency in an Eriksen flanker task.

Book Reviews

Bashore, T.R. Without right-handers, what's left? *Contemporary Psychology*, 1980, 25, 800-801.

Bashore, T.R. A susurrous voice in an ululant crowd. *Contemporary Psychology*, 1981, 26, 854-855.

Bashore, T.R. The right kind of chemistry. *Contemporary Psychology*, 1983, 28, 758-759.

Bashore, T.R. A pharmacopoeia for the nonmedical psychotherapist. *Contemporary Psychology*, 1984, 29, 640-641.

Bashore, T.R. Review of **Adult Cognition and Aging**. *Clinical Psychology Review*, 1988, 8, 122-123.

Bashore, T.R. Review of **Psychophysiology: Some simple concepts and models**. *Psychophysiology*, 1988, 25, 370-371.