CURRICULUM VITAE (April, 2012)

Warren Shelburne Brown, Jr., Ph.D.

UNIVERSITY ADDRESS:

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EDUCATION:

EDUCATION.		
19	962-1966	B.A.: Point Loma Nazarene University (San Diego)
		Major: Psychology. Minor: Religion. Graduated Magna Cum Laude.
19	966-1968	M.A.: University of Southern California. Experimental Psychology (Physiological).
		Thesis Title: Evoked Potential Correlates of Information Delivery and
		Uncertainty in Downs Syndrome and Normal Children.
19	968-1971	Ph.D.: University of Southern California. Experimental Psychology (Physiological).
		Dissertation Title: Visual Evoked Potentials, Laterality of Eye
		Movements and the Asymmetry of Brain Functions.

PROFESSIONAL TRAINING AND ACADEMIC POSITIONS:

1971-1973	Postdoc., Mental Health Training Prog., Brain Research Institute, UCLA.
1970-1975	Instructor in Psychology (part time), Point Loma Nazarene University.
1973-1975	Assistant Research Psychologist, Dept. of Psychiatry, UCLA School of Medicine.
1976-1977	Guest Professor, Dept. of Neurology, University Hospital, Zurich Switzerland.
1975-1982	Assist. to Assoc. Professor in Residence, Dept. of Psychiatry, UCLA School of Medicine.
1982-2002	Adjunct Associate Professor to Professor, Dept. of Psychiatry, UCLA School of Medicine.
1982-	Member of Brain Research Institute, UCLA
1982-1984	Associate Professor Psychology, Graduate School of Psych., Fuller Theological Seminary.
1985-	Professor of Psychology, Graduate School of Psychology, Fuller Theological Seminary.
1986	Visiting Scholar, Dept. of Communication and Neuroscience, Univ. of Keele, UK.
1991-	Director, The Travis Research Institute, Fuller Grad School of Psychology.

PROFESSIONAL QUALIFICATIONS:

Licensed Psychologist, State of California (PSY 4554)

HONORS AND AWARDS:

Research Scientist Development Award, Type I, 1975-1980

NSF Industrialized Countries Program for the Exchange of Scientists and Engineers, 1986

Point Loma University Alumni Award, 1977

Point Loma University Outstanding Alumnus, 1988

C. Davis Weyerhaeuser Teaching Excellence Award, 1992

American Men and Women of Science

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PROFESSIONAL SOCIETIES:

American Psychological Association: Fellow of Division 40 (Neuropsychology) and of Division 6 (Behavioral Neuroscience and Comparative Psychology)

Association for Psychological Science

International Neuropsychological Society

New York Academy of Sciences

American Association for the Advancement of Science

American Scientific Affiliation

International Society for Science and Religion (an elected academic academy)

EDITORIAL BOARDS

Perspectives in Science and Christian Faith (Journal of the American Scientific Affiliation)

Journal of the Biological Study of Religion

EDITORIAL REVIEWS FOR SCIENTIFIC JOURNALS AND GRANTING AGENCIES:

Science; Psychophysiology; Neuropsychologia; Child Neuropsychology; Developmental Neuropsychology; Neuropsychology; J. International Neuropsychology Society; J. Clinical and Experimental Neuropsychology; Biological Psychiatry; Experimental Brain Research; Cortex; Electroencephalography and Clinical Neurophysiology; Neurorehabilitation and Neural Repair; Archives of General Psychiatry; National Science Foundation; Psychological Bulletin; J. American Scientific Affiliation; American Psychologist; Alzheimer's Disease and Assoc. Disorders; Kidney International; Trends in Cognitive Science; Templeton Foundaton.

GRADUATE COURSES TAUGHT:

Physiological Psychology; Human Neuropsychology; Neuropsych Assessment; Cognitive Psychology; EEG/ ERP Research Seminar; Neuropsych Research Seminar; Research Colloquium; Portraits of Human Nature.

RESEARCH GRANTS

MH-03831 NIMH "Auditory Electrophysiology & Behavior", 1977-82; \$256,098; J.T. Marsh, P.I.; W. S. Brown, Co-P.I.

MH-00021 NIMH "EEG in Language and Cognitive Proc. and Dysfunction", 1975-1980 Research Scientist Development Award to W.S. Brown

MH-37665 NIMH "EEG (ERP) and Cognitive Deficits in Schizophrenic Children". 1984-1987; \$160,000; J.T. Marsh, P.I., W.S. Brown, Co-P.I.

INT-8603353 NSF "Focal Brain Sources of Speech Related EEG Potentials", 1986-87; U.S.-Internat.Countries Prog. for Exchange of Scientists & Engineers: W.S. Brown

MH-37665 NIMH "EEG (ERP) and Cognitive Deficits in Schizophrenic Children". 1989-1990; \$143,451; J.T. Marsh, P.I.; R.J. Strandburg and W.S. Brown, Co-P.I.

USPHS Contract #101-90-0011 "Impact of Care Coordination - Case Facilitation on Stress, Immune Function, and Health"; 1991-92; \$28,244; W.S. Brown, P.I.

PP0244 Nat. Multiple Sclerosis Soc. "Dysconnection Syndromes in Multiple Sclerosis"; 1992-93; \$19,360; W.S. Brown, P.I.

USPHS Contract #93-0743-37 "A Computerized Version of the Bimanual Coordination Task: Validity, Reliability, Stability and Sensitivity"; 1994-96; \$23,530; W.S. Brown, P.I.

NICHD HD33118 "Cognitive and Psychosocial Profile of Callosal Agenesis" 1996-98; \$80,000, W.S. Brown, P.I.

Templeton Foundation Grant, "Portraits of Human Nature", 1996-1997, \$80,000,

- W. Brown, N. Murphy and N. Malony project / book editors.
- Private Donors Grant, "Cognitive and Psychosocial Deficits in ACC", 2002-2004, \$30,000.
- Templeton Foundation Grant, "Did My Neurons Make Me Do IT?", 2003-04, \$9,000, to N. Murphy and W. Brown.
- Science and Transcendence Advanced Research Series (STARS) grant competition, Center for Theology and Natural Science. W. Brown, G. Peterson, K. Reimer, M. Spezio, and J.Van Slyke. "The Rationality of Ultimate Value: Emotion, Awareness, and Causality in Virtue Ethics and Decision Neuroscience", Jan-Dec, 2007, \$20,000; Jan-Dec, 2008, \$100,000; Jan-Dec, 2009, \$200,000.
- Templeton Foundation Grant, "Love, Compassion, and Care: Virtue Science and Exemplarity in Real Life and in the Laboratory" Michael Spezio, Steven Quartz and Warren Brown, Oct. 2012-Oct, 2014, \$1,270,000.

SCIENTIFIC PUBLICATIONS AND CHAPTERS: (By Major Topic of Investigation)

Human Cognition and Interhemispheric Interactions:

- Brown, W.S. and Jeeves, M. A. (1993) Bilateral field advantage and evoked potential interhemispheric transfer time. Neuropsychologia. 31, 1267-1281.
- Brown, W.S., Larson, E.B., and Jeeves, M.A.. (1994) Directional asymmetries in interhemispheric transfer time: Evidence from visual evoked potentials. <u>Neuropsychologia</u>. 32, 439-448.
- Moore, L.H., Brown, W.S., Markee, T.E., Theberg, D.C., and Zvi, J. (1995) Bimanual coordination in dyslexia. Neuropsychologia. 33, 781-793.
- Steese-Seda, D., Brown, W.S., and Caetano, C. (1995) Development of bimanual visuomotor coordination in school aged children: The Bimanual Coordination Task. <u>Developmental</u> Neuropsychology. 11, 181-199.
- Moore, L.H., Brown, W.S., Markee, T.E. Theberge, D.C., and Zvi, J.C. (1996) Callosal transfer of finger localization information in phonologically dyslexic adults. <u>Cortex</u>. <u>32</u>, 311-322.
- Markee, T.E., Brown, W.S., Moore, L.H., Theberge, D.C., and Zvi, J.C. (1996) Callosal Function in Dyslexia: Evoked Potential Interhemispheric Transfer Time and Bilateral Field Advantage.

 <u>Developmental Neuropsychology</u>. 12, 409-428.
- Larson, E.B. and Brown, W.S. (1997) Bilateral field interactions, hemispheric specialization and evoked potential interhemispheric transmission time. Neuropsychologia, *35*, 573-581.
- Brown, W.S., Bjerke, M.D., & Galbraith, G.C. (1998) Interhemispheric transfer in normals and acallosals: Latency adjusted evoked potential averaging. <u>Cortex</u>, <u>34</u>, 677-692.
- Brown, WS, Jeeves, MA, Dietrich, R., and Burnison, DS. (1999) Bilateral field advantage and evoked potential interhemispheric transmission in commissurotomy and callosal agenesis. Neuropsychologia, 37, 1154-1180.

- Brown, W.S. and Paul L.K., (2000) Psychosocial deficits in agenesis of the corpus callosum with normal intelligence. <u>Cognitive Neuropsychiatry</u>. <u>5</u>, 135-157.
- Brown, W.S. and Banich, M.T. [Special Issue Guest Editors] (2000) Development of the Corpus Callosum and Interhemispheric Interactions. <u>Developmental Neuropsychology</u>, 18.
- Banich, M.T. and Brown, W.S. (2000) A Lifespan Perspective on Interaction Between the Cerebral Hemispheres, Developmental Neuropsychology, 18, 1-10.
- Hagelthorn, K.M., Brown, W.S., Amano, S., and Asarnow, R. (2000) Normal development of bilateral field advantage and evoked potential interhemispheric transmission time. <u>Developmental Neuropsychology</u>, 18, 11-32.
- Brown, W.S., Thrasher, E.D., and Paul, L.K. (2001) Interhemispheric Stroop effect in partial and complete agenesis of the corpus callosum. <u>Journal of the International Neuropsychological Society.</u> 7, 302-311.
- Larson, E.B., Burnison, D.S. and Brown, W.S. (2002) Callosal Function in Multiple Sclerosis: Bimanual Motor Coordination. Cortex. 38, 201-214.
- Hines, R.J., Paul, L.K. and Brown, W.S. (2002) Spatial attention in agenesis of the corpus callosum: Shifting attention between visual fields. <u>Neuropsychologia</u>. 40, 1804-1814.
- Brown, W.S. (2003) Clinical neuropsychological assessment of callosal dysfunction: Multiple sclerosis and dyslexia. In E. Zaidel, and M. Iacoboni (Eds.). <u>The Parallel Brain: The Cognitive Neuroscience of the Corpus Callosum</u>. Cambridge: MIT Press.
- Paul, L.K., Van Lancker, D., Schieffer, B. and Brown, W.S. (2003) Communicative deficits in individuals with agenesis of the corpus callosum: Nonliteral language and affective prosody. <u>Brain and Language</u>. 85, 313-324,
- Marion, S.D., Killian, S.C., Naramor, T., and Brown, W.S. (2003) Normal Development of Bimanual Coordination: Visuomotor and Interhemispheric Aspects. <u>Developmental Neuropsychology</u> 23, 399-421.
- Paul, L.K., Schieffer, B., and Brown, W.S. (2004) Social Processing Deficits in Agenesis of the Corpus Callosum: Narratives from the Thematic Apperception Test. <u>Archives of Clinical Neuropsychology</u>. 19, 215-225
- Lee, G. P., Meador, K. J., Loring, D.W., Allision, J.D., Brown, W.S., Paul, L.K., Pillai, J.J., and Lavin, T.B. (2004) Neural Substrates of Emotion as Revealed by Functional Magnetic Resonance Imaging. <u>Cognitive and Behavioral Neurology</u>. 17, 9-17.
- Roebuck-Spencer, T.M., Mattson, S.N., DeBoard Marion, S., Brown, W.S., and Riley, E. (2004) Bimanual coordination in alcohol-exposed children: Role of the corpus callosum. <u>Journal of the Internation Neuropsychological Society.</u> 10, 536-548.

- Brown, W.S., Paul, L.K., Symington, M., and Dietrich, R. (2005) Comprehension of Humor in Primary Agenesis of the Corpus Callosum. <u>Neuropsychologia</u>. 43:906-916.
- Brown, W.S., Symington, M., VanLancker, D., Dietrich, R. and Paul, L.K. (2005) Paralinguistic processing in children with Callosal Agenesis: Emergence of neurolinguistic deficits. <u>Brain and Language</u>. 93, 135-139.
- Paul, L.K., Lautzenhiser, A., Brown, W.S., Spezio, M., Neumann, D., & Adolphs, R. (2006) Emotional Arousal in Agenesis of the Corpus Callosum. <u>International Journal of Psychophysiology</u>. 61. 47-56.
- Paul, L.K., Brown, W.S., Adolphs, R., Tyszka, J.M., Richards, L.J., Mukherjee, P., and Sherr, E.H. (2007) Agenesis of the corpus callosum: Genetic, developmental, and functional aspects of connectivity. <u>Nature Reviews Neuroscience</u>. 8, 287-299.
- Moes, P., Brown, W.S., and Minnema, M. (2007) Individual differences in interhemispheric transfer time (IHTT) as measured by event related potentials. <u>Neuropsychologia</u>, 45, 2626-2630.
- Badaruddin, D.H. Andrews, G.L., Bölte, S., Schilmoeller, K.J., Schilmoeller, G., Paul, L.K. and Brown, W.S. (2007) Social and Behavioral Problems of Children with Agenesis of the Corpus Callosum. <u>Child Psychiatry and Human Development</u>. 38:287-302.
- Kilian, S., Brown, W.S., Hallam, B.J., McMahon, W., Lu, J., Bigler, E.D., and Lainhart, J.E. (2008). Regional callosal morphology in autism and macrocephaly. <u>Developmental Neuorpsychology</u>. 33: 1-26.
- Hallam, B.J., Brown, W.S., Ross, C., Buckwalter, J.G., Bigler, E.D., Tschanz, J.T., Norton, M.C., Welsh-Bohmer, K.A., and Breitner, J.C.S. (2008) Regional Atrophy of the Corpus Callosum in Dementia. <u>Journal of the International Neuropsychological Society</u>. 14, 1-10.
- Mueller, K.O., Marion, S. D., Paul, L.K., and Brown, W.S. (2010) Bimanual Motor Coordination in Agenesis of the Corpus Callosum. Behavioral Neuroscience. 123(5), 1000-1011.
- Turk, A., Brown, W.S., Symington, M., and Lynn K. Paul, (2010) Social Narratives in Agenesis of the Corpus Callosum: Linguistic Analysis of the Thematic Apperception Test. *Neuropsychologia*. 49, 43-50.
- Symington, S.H., Brown, W.S., Symington, M., Ono, M., Paul, L.K. (2010) Social Inference in Individuals with Agenesis of the Corpus Callosum. <u>Social Neuroscience</u>. 5, 296-308.
- Marco, E.J., Harrell, K.M., Brown, W.S., Hill, S.S., Jeremy, R.J., Kramer, J.H. Sherr, E.H., and Paul, L.K. (in press) "Processing speed delays contribute to executive function deficits in individuals with agenesis of the corpus callosum" *Journal of the International Neuropsychological Society*.
- Brown, W.S., Anderson, L., Symington, M. F. & Paul, L.K. (under review) "Decision-Making in Agenesis of the Corpus Callosum: Expectancy-Valence in the Iowa Gambling Task" *Archives of Clinical Neuropsychology*.

- Brown, W.S., Anderson, L., Symington, M. F. & Paul, L.K. (under review) "Decision-Making in Agenesis of the Corpus Callosum: Expectancy-Valence in the Iowa Gambling Task" *Archives of Clinical Neuropsychology*.
- Marion, S.D, Babikian, T., Brown, W.S. et al. (under review) "Bimanual Coordination Deficits and Recovery in Children with Moderate to Severe Closed Head Injury" *Neuropsychology*.

Adult and Childhood Psychopathology:

- Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F. and Guthrie, D. (1984) ERP Concomitants of Attention Disorder in Schizophrenic Children. <u>Electroencephalog.</u> and <u>Clinical Neurophysiol.</u> <u>57</u>:236-253.
- Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F. and Guthrie, D. (1987) P3, PCA and Schizophrenia: Amplitude or Latency? In R. Johnson, J.W. Rohrbaugh, and R. Parasuraman, Eds., Current Research in Event-related Brain Potentials. Supplement to Electroencephalo-graphy and Clinical Neurophysiology, 756-761.
- Strandburg, R., Marsh, J., Brown, W., Asarnow, R., Guthrie, D. and Higa, J. (1990) ERP Correlates of Impaired CPT Performance in Schizophrenic Children. <u>Biological Psychiatry</u>. <u>27</u>, 1103-1115.
- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1991) Reduced Attention-Related Negative Potentials in Schizophrenic Children. <u>Electroencephalography</u> and Clinical Neurophysiology. 79, 291-307.
- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1993) Event-related Potentials in High Functioning Adult Autistics: Linguistic and Nonlinguistic Visual Information Processing Tasks. Neuropsychologia. 31, 413-443.
- Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F., Guthrie, D., Higa, J., Harper, R., Yee, C. and Nuechterlein, K. (1994) Reduced Attention-Related Negative Potentials in Schizophrenic Adults. Psychophysiology. 31, 272-281.
- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1994) Continuous processing-related ERPs in schizophrenic and normal children. <u>Biological Psychiatry</u>. 35, 525-538.
- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1994) EEG Continuity in information processing deficits across childhood and adult onset schizophrenia. <u>Schizophrenia Bulletin</u>. 20, 685-695.
- Asarnow, R.F., Brown, W.S., & Strandburg, R.J. (1995) Children with schizophrenic disorder: Neurobehavioral studies. European Archives of Psychiatry & Clinical Neuroscience. 242, 70-79.

- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1996) Continuous processing-related ERPs in children with attentional deficit disorder. <u>Biological Psychiatry</u>. <u>40</u>, 964-980.
- Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D., Harper, R., Yee, C.M. & Neuchterlein, KH. (1997) Event-related potential correlates of linguistic information processing in schizophrenia. Biological Psychiatry. 42, 596-608.
- Strandburg, RJ, Marsh, JT, Brown, WS, Asarnow, R, Guthrie, D, Harper, R, and Nuechterlein, KH. (1999) Continuous Processing Related ERPs in Adult schizophrenia: Continuity with Childhood Onset Schizophrenia. <u>Biological Psychiatry</u>. 45, 1356-1369.

Cognitive Status in Kidney Disease and Dialysis Treatment:

- Tennyson, T., Brown, W., Vaziri, N. and Jennison, J. (1985) Event-related potential changes during hemodialysis. Journal of Artificial Organs. 80, 269-276.
- Marsh, J., Brown, W., Wolcott, M., Landsverk, J., and Nissenson, A. (1986) Electrophysiological function in hemodialysis and CAPD. Kidney International. 30, 957-963.
- Marsh, J.T., Brown, W.S., Wolcott, D., Carr, C., Harper, R., Schweitzer, S. and Nissenson, A. (1991) rHu EPO treatment improves brain and cognitive function of anemic dialysis patients. <u>Kidney</u> International. 39, 155-163.
- Brown, W.S., Marsh, J.T., Wolcott, D., Carr, C., Takushi, R., Higa, J., Schweitzer, S.V., and Nissenson, A. (1991) Cognitive function, mood and P3 latency: Effects of the amelioration of anemia in dialysis patients. Neuropsychologia. 29, 35-45.
- Nissenson, A.R., Marsh, J.T., Brown, W.S. and Wolcott, D.L. (1991) Central nervous system function in dialysis patients: A practical approach. <u>Seminars in Dialysis</u>. <u>4</u>, 115-123.
- Brown, W.S. Electroencephalography in the evaluation of function in dialysis patients. In A. Nissenson and R. Fine, Eds. Dialysis Therapy, 2nd Edition, Hanley & Belfus, 1993.
- Pickett, JL, Theberge, DC, Brown, WS, Schweitzer, SU, and Nissenson, AR. (1999) Normalizing HCT in Dialysis Patients Improves Brain Function. American Journal of Kidney Disease, 33(6):1122-30.

Brain Wave Correlates of Language Processing

- Brown, W.S., Marsh, J.T. and Smith, J.C. Contextual meaning effects on speech evoked potentials. Behavioral Biology. 9, 755-761, 1973.
- Marsh, J.T. and Brown, W.S. Evoked potential correlates of meaning in the perception of language. In J.E. Desmedt (Ed.) <u>Language and Hemispheric Specialization in Man: Cerebral Event-Related Potentials</u>. (Basel, Switzerland; Karger, 1977).

- Brown, W.S., Marsh, J.T., and Smith, J.C. Evoked potential waveform differences produced by the perception of different meanings of an ambiguous phrase. <u>Electroencephalog.</u> and <u>Clinical Neurophysiol.</u>, 41, 113-123, 1976.
- Brown, W.S. Individual differences and similarities in EP correlates of linguistic meaning. In D. Otto (Ed.) <u>Multidisciplinary Perspectives in Event-Related Brain Potential Research</u>. EPA-600/9-77-043 U.S. Government Printing Office, Washington, D.C., (1977).
- Brown, W.S., Lehmann, D. and Matzener, C. Scalp topography of EEG potentials evoked by nouns and verbs. Medita: Medizin-Technik in der Schweiz. M. Anliker, Ed. (Solothurn, Switzerland; Vogtschild, 1977).
- Brown, W.S. and Lehmann, D. Linguistic meaning-related differences in ERP scalp topography. In D. Lehmann and E. Callaway, <u>Human Evoked Potentials: Applications and Problems</u> (New York, Plenum, 1979).
- Brown, W.S., Marsh, J.T. and Smith, J.C. Principal component analysis of ERP differences related to the meaning of an ambiguous word. <u>Electroencephalog.</u> and <u>Clinical Neurophysiol.</u>, <u>46</u>, 709-714, 1979.
- Lehmann, D., Brown, W.S. and Matzener, C. Hirnpotentiale evoziert durch homophone Worter: Topographische Unterschiede durch Verb-und Substantiv-Bedeutung. <u>Der Nervenarzt</u>, <u>50</u>, 147-153, 1979.
- Brown, W.S., Lehmann, D. and Marsh, J.T. Linguistic meaning-related differences in evoked potential topography: English, Swiss- German and Imagined. Brain and Language, 11, 340-353, 1980.
- Brown, W.S., and Lehmann, D. Verb and noun meaning of homophone words activate different cortical generators: A topographical study of evoked potential fields. In O. Creutzfeld, H. Scheich, and C. Schreiner (Eds.) Experimental Brain Research, Suppl. II: Hearing Mechanisms and Speech. 1979.
- Brown, W.S., Marsh, J.T. and Ponsford, R.E. Hemispheric differences in event-related brain potentials. Invited chapter in E. Zaidel and F. Benson, Ed. <u>The Dual Brain: Hemispheric Specialization in Humans</u>. New York, The Guilford Press, 1985.
- Brown, W.S., Marsh, J., Ponsford, R. and Travis, L. Language laterality, sex and stuttering: ERPs to contextual meaning. In G.C. Galbraith, M. L. Kietzman and E. Donchin, Eds. Neurophysiology and Psychology:Experimental and Clincial Applications. (New Jersey, Lawrence Erlbaum Assoc., 1988).

P300 Latency in Aging and Dementia:

Brown, W.S., Marsh, J.T. and LaRue, A. Event-related potentials in psychiatry: Differentiating depression and dementia in the elderly. <u>Bulletin of the Los Angeles Neurological Society</u>. <u>47</u>, 91-107, 1982.

- Brown, W.S., Marsh, J.T., and LaRue, A. Exponential electrophysiological aging: P3 latency. Electroencephalog. and Clinical Neurophysiol.. 55: 277-285, 1983.
- Ball, S., Marsh, J.T., Schubarth, G., Brown, W.S. and Strandburg, R. Longitudinal P300 Latency Changes in Alzheimer's Disease. <u>Journal of Gerontology: Medical Sciences</u>. 44, M195-200, 1989.
- Marsh, J.T., Schubarth, G., Brown, W.S., Riege, W., Strandburg, R., Dorsey, D. Martese, A. and Kuhl, D. PET and P300 Relationships in Early Alzheimer's Disease. <u>Neurobiology of Aging</u>. <u>11</u>, 471-476. 1990.
- Marsh, J., Schubarth, G., Brown, W., Riege, W., Strandburg, R., Dorsey, D. Martese, A. and Kuhl, D. PET and P300 Relationships in Early Alzheimer's Disease. <u>Clini. Digest Series</u>, 1991.

Other Neuropsychological Studies:

- Vanderploeg, R., Brown, W.S., and Marsh, J.T. Judgements of emotions in words and faces: ERP correlates. International Journal of Psychophysiology, 5, 193-205, 1987.
- Heukrodt, C., Powazek, M., Brown, W.S., Kennelly, D., Imbus, C., Robinson, H. and Schantz, S. Electrophysiological signs of neurocognitive deficits in long-term Leukemia survivors. <u>Journal of Pediatric Psychology</u>, 13, 223-236, 1988.
- Kerr, C. and Brown, W.S. Individual differences in cognitive and personality traits as measured by the Sixteen Personality Factor Questionaire. Perceptual and Motor Skills. 67, 943-954, 1988.
- Schantz, S. and Brown, W.S. P300 latency and cognitive ability in Down's Syndrome. In D. Van Dyke (ed.) <u>Clinical Perspectives in Management of Down's Syndrome</u> (Springer-Verlag, 1989).
- Woodward, S., Brown, W.S., Marsh, J.T. and Dawson, M. (1992) Probing the P3 with secondary reaction time. <u>Psychophysiology</u>. <u>28</u>, 609-618.
- Kern, R.S., Van Gorp, W.G., Cummings, J.L. and Brown, W.S. (1992) Confabulation in Alzheimer's Disease. Brain and Cognition. 19, 172-182.
- Drake, E.B., Henderson, V.W., Stanczyk, F.Z., McCleary, C.A., Brown, W.S., Smith, C.A., Rizzo, A.A., Murdock, G.A., and Buckwalter, J.G. (2000) "Associations between circulating sex steroid hormones and cognition in normal elderly women" Neurology, 54(3):599-603.

Event-Related EEG Potential Methodology:

Lehmann, D., Skrandies, W., and Brown, W.S. Brain functions and reference-free analysis of scalp EEG fields. In R. Sinz and M.R. Rosenzweig (Eds.): <u>Psychophysiology</u> <u>1980</u>. (Amsterdam, Elsevier Biomedical Press, 1982).

- Lehmann, D. and Brown, W.S. How to measure evoked EEG potentials for topography. In C. Barber (Ed.) <u>Proceedings of the International Evoked Potential Symposium, Notingham</u> (Lancaster, England, M.P.P. Press, 1980).
- Galbraith, G.C. and Brown, W.S. Cross-correlation and latency compensation analysis of click-evoked and frequency-following brainstem responses in man. <u>Electroencephalography</u> and <u>Clinical</u> Neurophysiology. 77, 295-308, 1990.

Auditory Brainstem Frequency-Following Responses:

- Marsh, J.T., Brown, W.S. and Smith, J.C. Differential brainstem pathways for the conduction of frequency-following responses. <u>Electroencephalog. and Clinical Neurophysiol.</u> 36, 415-427, 1974.
- Marsh, J.T., Brown, W.S., and Smith, J.C. Far-field recorded frequency-following responses: Correlates of auditory pitch perception in humans. <u>Electroencephalog.</u> and <u>Clinical Neurophysiol.</u>. 38, 113-119, 1975.
- Smith, J.C., Marsh, J.T., and Brown, W.S. Far-field recorded frequency-following responses: Evidence for the locus of brainstem sources. <u>Electroencephalog. and Clinical Neurophysiol.</u> 39, 465-472, 1975.
- Smith, J.C., Marsh, J.T., Greenberg, S. and Brown, W.S. Human auditory frequency-following responses to a missing fundamental. Science. 201:639-641, 1978.
- Greenberg, S., Marsh, J., Brown, W., and Smith, J. Neural temporal coding of low pitch I: Human frequency-following responses to complex tones. Hearing Research, 25, 91-114, 1987.

Other Research

- Strawn, B.D., Hester, S. and Brown, W.S. (1998) Telecare: A social support intervention for family caregivers of dementia victims. Clinical Gerontologist. 18, 66-69.
- Strawn, B.D., Hester, S. and Brown, W.S. (1998) A Simple Use of Technology Make a Big Differnce in Health Care: The Telecare study of family caregivers of dementia victims. <u>Teleconference</u>. 17, 18-19.
- Zwart, L.M., Palmer, S.L., Strawn, B.D., Milliron, J.T. and Brown, W.S. (2000) The impact of Lay Pastoral Telecare on the spiritual well-being of church attenders. <u>Journal of Pastoral Counseling</u>, 54, 63-73.

BOOKS IN NEUROSCIENCE, PHILOSOPHY, AND RELIGION:

Brown, W.S., ed. (2000) <u>Understanding Wisdom: Sources, Science, and Society</u>. Templeton Press, Contributed chapter: "Wisdom and Human Neurocognitive Systems: Perceiving and Practicing the Laws of Life".

- Brown, W.S., Murphy, N. and Malony, H.N. (eds.) <u>Whatever Happened of the Soul? Scientific and Theological Portraits of Human Nature</u>. Minneapolis: Fortress Press, 1998.
 - W. S. Brown, "Cognitive Contributions to Soul"
 - W. S. Brown, "Conclusions: Reconciling Scientific and Biblical Portraits of Human Nature" ** WINNER OF 1999 AWARD: BEST BOOKS IN THEOLOGY AND NATURAL SCIENCE FROM THE CENTER FOR THEOLOGY AND NATURAL SCIENCE, BERKELEY, CA.
- Murphy, N. and Brown, W.S. (2007) <u>Did My Neurons Make Me Do It?</u>: <u>Philosophical and Neurobiological Perspectives on Moral Responsibility and Free Will</u>. Oxford, U.K., Oxford University Press.
- Jeeves, M.A. and Brown, W.S. (2009) <u>Neuroscience, Psychology and Religion: Illusions, Delusions, and Realities about Human Nature</u>. Radnor, Penn: Templeton Press. Spanish translation: *Neurociencia psicología y religión: Illusiones, espejismos y realidades acerca de la naturaleza humana*. España, Editorial Verbo Divino (2010). Japanese translation: 脳科学とスピリチュアリティ Igaku-Shoin Ltd, Tokyo (2011).
- Brown, W.S. and Strawn, B.D. (2012). *The Physical Nature of Christian Life: Neuroscience, Psychology and the Church*. Cambridge, UK: Cambridge University Press.

OTHER PUBLICATIONS IN NEUROSCIENCE, PHILOSOPHY, AND RELIGION:

- Vogt, D. and Brown, W.S. (1988) Bottom-Line Morality. Christianity Today, March.
- Brown, W.S. and Caetano, C. Conversion, Cognition, and Neuropsychology. In H.N. Malony and S. Southard, Eds., Handbook of Conversion (Birmingham, AL, Religious Education Press, 1992).
- H.N.Malony and S. Southard, Eds. <u>Dictionary of Pastoral Care and Counseling</u>, 1992. Sections on Memory; Psychosurgery; Brain Research; Biological Dimensions of Personality and Behavior.
- Brown, W.S. (1996) The Body's Response to Stress. Christian Counseling Today. Summer, 23-26.
- Brown, WS. (1997) MacKay's View of Conscious Agents in Dialogue: Speculations on the Embodiment of Soul. Journal of Philosophy and Psychology. 4, 497-505.
- Brown, W.S. & L.K. Paul (1999) Wisdom and Disconnected Brain, Science and Spirit, 10(3), 18-19.
- Brown, W.S. (1999) A Neurocognitive Perspective on Free Will, <u>Bulletin of the Center for Theology and</u> Natural Science, 19.1, 22-29.
- Brown, W.S. and Jeeves, M.S. (1999) Portraits of human nature: Reconciling neuroscience and Christian anthropology. <u>Science and Christian Belief</u>, 11, 139-150.
- Abernethy, A.D. and Brown, W.S. (2000) Psychoneuroimmunology, Spirituality and Medicine. Spirituality and Medicine Connection, 4, 1,7.
- Brown, W.S. (2002) PNI and Western Religious Traditions. In H.G. Koenig and H. J. Cohen, Eds., <u>The Link between Religion and health.</u> (Oxford University Press) pp. 262-274.

- Brown, W.S. (2002) Nonreductive physicalism and soul: Finding resonance between theology and neuroscience. American Behavioral Scientist. 45: 1812-1821.
- Brown, W.S. (2003). Neurophysiology. Neuropsychology. Neuroscience. Sections in J. Wintzel van Huyssteen (Ed.) <u>Encyclopedia of Science and Religion</u>. New York: Macmillan Reference. (pp. 610-617).
- Brown, W.S. (2003) Evolution, Cognitive Neuroscience, and the Soul. In Keith B. Miller, ed., <u>Perspectives on an Evolving Creation</u>. (Grand Rapids: Eerdmans), pp. 502-523.
- Brown, W.S. (2004) Neuroscience: History; Current Status; Religious Experience. Sections in H. D. Betx, D. S. Browning, B. Janowski, and E. Jüngel. <u>Religion in Geschichte and Gegenwart. Veirte Auflage</u>. Tübingen: J.C.B. Mohr (Paul Siebeck) Publishing.
- Brown, W.S. (2004) Neurobiological embodiment of spirituality and soul. In Malcolm A. Jeeves, ed., <u>From Cells to Souls: Changing Portraits of Human Nature</u>. William B. Eerdmans Publishing Co. 58-76.
- Strawn, B.D. and Brown, W.S. (2004) Wesleyan Holiness through the Eyes of Cognitive Science and Psychotherapy. <u>Journal of Psychology and Christianity</u>. 23. 121-129.
- Brown, W.S. (2004) Resonance: A Model for Relating Science, Psychology, and Faith. <u>Journal of Psychology and Christianity</u>. 23, 110-120.
- Brown, W.S. and Wagener, L. (2004) Psychological research at the Graduate School of Psychology at Fuller Theological Seminary. <u>Journal of Psychology and Christianity</u>, 23, 325-330.
- Brown, W.S. Physicalism, Suffering, and Disability. (2005) <u>Journal of Psychology and Christianity.</u> 24, 149-155.
- Brown, W.S. (2005) Seven Pillars of the House of Wisdom. In R. Sternberg and J. Jordan. <u>A Handbook of Wisdom: Psychological Perspectives.</u> New York: Cambridge University Press, 353-368.
- Brown, W.S. (2005) "Human Nature, Physicalism, Spirituality, and Healing: Theological Views of a Neuroscientist". Ex Auditu. 21, 112-127.
- Matson, D.L. and Brown, W.S. (2006) Tuning the Faith: The Cornelius Story in Resonance Perspective. Perspectives in Religious Studies. 33(4), 449-465.
- Brown, W.S. (2006) "The Brain, Religion, and Baseball: Comments on the Potential for a Neurology of Religion." In P. McNamara (Ed.), Where God and Science Meet: How Brain and Evolutionary Studies Alter Our Understanding of Religion; Volume II: The Neurology of Religious Experience. (Westport, CT: Praeger Publishers).
- Brown, W.S. (2007) The Emergence of Efficacious Mental Function. In Nancey Murphy and William Stoeger, <u>Evolution and Emergence: Systems, Organisms, Persons</u>. Oxford, U.K., Oxford University Press, 198-227.

- Brown, W.S. (2009) "Resonance and Dissonance: A Response to 'Psychologising and Neurologising about Religion' by Malcolm Jeeves", Science and Christian Belief. 21: 65-71.
- Brown, W.S. and Marion, S.D. (2009) "Embodied Persons, Spiritual Formation, and Wesleyan Communities." In T. J. Oord (ed) <u>Divine Grace and the Created Order: Wesleyan Forays in Science and Theology of Creation</u>. Eugene Oregon, Pickwick Publication, 198-211.
- Brown, W.S., Marion, S.D., and Strawn, B. (2010) "Human Relationality, Spiritual Formation, and Wesleyan Communities." In M.K. Armistead, B. Strawn, and R. Wright Wesleyan Theology and Social Science: The Dance of Practical Divinity and Discovery. Cambridge University Press, 95-112.
- Brown, W.S. (2010) "Nonreductive Human Uniqueness: Immaterial, Biological, or Psychosocial?" In Nancey Murphy and Christopher C. Knight <u>Human Identity at the Intersection of Science</u>, <u>Technology and Religion</u>. Farnham, Surrey, UK, 97-116.
- Brown, W. S., Reimer, K.S., Spezio, M.L., Peterson, G. and Van Slyke, J. (in press) "A Science of Love: Behavioral and Neuroscience Study of the Virtue of Compassion." In M. Welker (ed) <u>Law and Love</u>: Philosophy, Theology, and Natural Sciences in China and the West.
- Reimer, K., Spezio, M., Brown, W., Peterson, G., Van Slyke, J., & Monroe, K. (in press). Political courage: New methods for the interdisciplinary study of virtue. In K. Monroe (Ed.), *Strange bedfellows: Science and ethics*. Boulder, CO: Paradigm.
- Brown, W.S. (2010) Neuroscience of Religion, <u>The International Society for Science and Religion</u>, Web site http://www.issr.org.uk/neuroscience-of-religion.asp
- Brown, W.S., Garrels, S. and Reimer, K. (in press) "Mimesis and Compassion in Care for the Disabled" *Journal of Religion, Disability, and Health.*
- Brown, W.S. and Strawn, B.D. (2011) "Human Bodies and Church Bodies: Spiritual Flourishing and Formation" in I. Noth, C. Morgenthaler, and K. J. Greider (eds) *Pastoral Psychology and Psychology of Religion in Dialogue*. Stuttgart: W. Kohlhammer.
- Reimer, K.S., Young, C., Birath, B., Spezio, M.L., Peterson, G., Van Slyke, J. and Brown, W. S. (2011) "From Novice to Expert: Moral Prototype Knowledge in Humanitarian Self-Understanding". *Journal of Positive Psychology*. 7, 36-44.
- Van Slyke, J., Peterson, G., Brown, W.S., Reimer, K., and Spezio, M. *Theology and the Science of Moral Action: Virtue Ethics, Exemplarity, and Cognitive Neuroscience* (2012) Routledge.

BOOK REVIEWS AND OTHER CONTRIBUTIONS

- Brown, W.S. Left brain, right brain. Wraparound: Harpers Magazine, Dec., 1975, 120.
- Book Reviewed by W.S. Brown: Rockstroh, Elbert, Canavan, Lutzenberger, and Birbaumer. *Slow Cortical Potentials and Behavior*. Neuropsychologia, 31, 1426-1427, 1993.
- Book Reviewed by W.S. Brown: Rohrbaugh, Parasuraman, and Johnson, Eds. *Event-related Brain Potentials: Basic Issues and Applications*. Neuropsychologia, 31, 1426, 1993.

- Book Reviewed by W.S. Brown: Renault, Kutas, Coles, and Gaillard, Eds. *Event Related Potential Investigations of Cognition*. Neuropsychologia, 32, 1994.
- Brown, W.S. and Wagener, L. (in press) Psychological research at the Graduate School of Psychology at Fuller Theological Seminary. <u>Journal of Psychology and Christianity.</u>

AWARDS FOR PRESENTATIONS AT SCIENTIFIC MEETINGS

- Burnison, D.S., Larson, E.B. & Brown, W.S. Evoked potential interhemispheric transmission and the bilateral field advantage in Multiple Sclerosis [Abstract] <u>Journal of the International</u> Neuropsychological Society, 1, p. 182, 1995.
- ** WINNER OF THE 1995 RENNICK AWARD FOR BEST PREDOCTORAL PAPER.
- Thompson, K.M., Amano, S.A., Katchikian, A., & Brown, W.S. Development of the corpus callosum: Interhemispheric transmission time and bilateral field advantage [Abstract] <u>Journal of the International Neuropsychological Society</u>, <u>3</u>, p. 61, 1997.
- ** WINNER OF THE INS 1997 RENNICK AWARD FOR BEST PREDOCTORAL PAPER.
- Paul, L., Schieffer, B., Van Lancker, D. and Brown, W. (2000) Nonliteral language deficits in agenesis of the corpus callosum [Abstract]. <u>Journal of the International Neuropsychological Society</u>, 6, 178.
- ** FINALIST FOR BUTTERS AWARD FOR BEST PAPER BY A POSTDOC.

PUBLISHED SCIENTIFIC ABSTRACTS AND PRESENTATIONS AT SCIENTIFIC MEETINGS (From 2005; 150 presentations prior to 2005)

- DeJong, J.E., Paul, L.K., Symington, M., Turk, A.A., Garrels, S.R., and Brown, W.S. (2005) Sensory-motor Interhemispheric Transfer in Children with Callosal Agenesis [abstract]. <u>Journal of International Neuropsychological Society</u>.
- Mueller, K.O., Marion, S.D., Paul, L.K., and Brown, W.S. (2005) Bimanual Coordination in Individuals with Agenesis of the Corpus Callosum [abstract]. <u>Journal of International Neuropsychological</u> Society.
- Badaruddin, D., Andrews, G., Schilmoeller, K.J., Boelte, S., Paul, L.K., and Brown, W.S. (2005) Social and Behavioral Deficits in Children with Agenesis of the Corpus Callosum [abstract]. <u>Journal of International Neuropsychological Society.</u>
- McBurney-Rebol, K., Lautzenhiser, A., Wallace, D., Paul, L.K., and Brown, W.S. (2005) Assessment of Social Information Processing: Behavioral and Autonomic Responses to the Thematic Apperception Test [abstract]. Journal of International Neuropsychological Society.
- Bridgman, M., Brown, W.S., Adolphs, R., Spezio, M., and Paul, L.K. Facial Emotion Recognition in Primary Agenesis of the Corpus Callosum. <u>International Neuropsychological Society</u>. Boston, February 2006.
- Ono, M., Brown, W.S., Symington, S.H., Paul, L.K., and Kern, R.S. Comparing Theory of Mind in Individuals with Schizophrenia and Agenesis of the Corpus Callosum. International Neuropsychological Society. Boston, February 2006.

- Mueller, K.O., Marion, S.D., Paul, L.K., and Brown, W.S. Bimanual Motor Coordination in Individuals with Partial and Complete Callosal Agenesis. <u>International Neuropsychological Society</u>. Boston, February 2006.
- DeJong, J., Chiarello, C., Paul, L.K., and Brown, W.S. Semantic Priming in Individuals with Callosal Agenesis. <u>International Neuropsychological Society</u>. Boston, February 2006.
- Spina, S.M., Paul, L.K., and Brown, W.S.. MMPI Profiles in Agenesis of the Corpus Callosum. International Neuropsychological Society. Boston, February 2006.
- Legardy, S.N., Brown, W.S., Beatrix Schieffer, B. and Paul, L.K. Deficits in Interpreting Inference and Irony Individuals with Agenesis of the Corpus Callosum. <u>International Neuropsychological Society</u>. February, 2007.
- Brown, W.S. and Fulvia Castelli, Eliciting Understanding of the Human Mind in Interstellar Messages. Presented at the Society for Psychological Anthropology. March, 2007.
- Pazienza, S., Paul, L. K., and Brown, W. S. Alexithymia and Somatization in Agenesis of the Corpus Callosum. <u>International Neuropsychological Society</u>. February, 2008.
- Harrell, K. M., Marco, E., Porter, A., Sherr, E., Paul, L. K., and Brown W. S. Color-word Inhibition in Agenesis of the Corpus Callosum. <u>International Neuropsychological Society</u>. February, 2008.
- Wallace, D.R., Lautzenhiser, A., McBurney-Rebol, K., Paul, L. K., and Brown, W. S. Facial EMG in Agenesis of the Corpus Callosum When Viewing Emotional Faces. <u>International Neuropsychological Society</u>. February, 2008.
- Cutiongco, R., Paul, L. K., Symington, M., and Brown, W. S. Semantic Analysis of the Awareness of Consequences Test in Agenesis of the Corpus Callosum. <u>International Neuropsychological Society</u>. February, 2008.
- Marion, S.D and W.S.Brown, "Attachment, Spiritual Formation, and Wesleyan Communities" Society for the Study of Psychology and Wesleyan Theology, 2008
- Spezio, M. L., W. S. Brown, G. R. Peterson, K. S. Reimer, & J. van Slyke, "Virtuous Decisions: Exemplarity In and Out of the Laboratory," annual meeting of the <u>Society for Neuroeconomics</u>, Park City, Utah, 2008.
- Legardy, S.N., Paul, L.K. and Brown, W.S. Longitudinal case study of agenesis of the corpus callosum: Child to adult. <u>International Neuropsychological Society</u>. February, 2009.
- Harrell, K.M., Marco, E., Paul, L.K., Sherr, E., and Brown, W.S. Proverb comprehension in individuals with agenesis of the corpus callosum. <u>International Neuropsychological Society</u>. February, 2009.
- Erickson, R.L., Paul, L.K., and Brown, W.S. CVLT-II list learning in agenesis of the corpus callosum. <u>International Neuropsychological Society</u>. February, 2009.
- Kang, K.H., Paul, L.K., Castelli, F. and Brown, W.S. Theory of Mind in agenesis of the corpus callosum compared to high functioning autism. <u>International Neuropsychological Society</u>. February, 2009.
- Young, C., Brown, W. S., and Reimer, K. S. (2010) "Social Schemas of Moral Exemplars: Latent Semantic Analysis of Interviews with L'Arche Caregivers" Meeting of the Association for Psychological Science, Boston.
- Birath, J., Erickson, R. L., Young, C., Paul, L. K., Brown, W. S. (2010) "Verbal Memory in Individuals with Agenesis of the Corpus Callosum: Evidence of Mild Impairment" Meeting of the Association for Psychological Science, Boston.

- Erickson, R. L., Young, C. Birath, J. Hartman, J. Paul, L. K. and Brown W. S. (2010) "Verbal Memory in Agenesis of the Corpus Callosum: Logical Memory and Paired Associates" Meeting of the International Neuropsychological Society, Alcapulco.
- Pazienza, S. R., Brown, W. S., Adolphs, R., and Paul L. K. (2010) "Social Responsiveness in Agenesis of the Corpus Callosum and High Functioning Autism" Meeting of the International Neuropsychological Society, Alcapulco.
- Folsom, R. C., Young, C. M., Turk, A. A., Paul, L. K. and Brown W. S. (2010) "Semantic Analysis of Awareness of Consequences in Agenesis of the Corpus" Meeting of the International Neuropsychological Society, Alcapulco.
- Harrell, K. M., Marco, E. J., Paul, L. K., Sherr, E. H., and Brown W. S. (2010) "Processing Speed on the Trail Making Test in Agenesis of the Corpus Callosum" Meeting of the International Neuropsychological Society, Alcapulco.
- Spezio, M. L., Reimer K., Peterson, G., van Slyke, J., Holcomb, C., & Brown, W. S. "The Neuroscience of Moral Action: A Focus on Virtuous Exemplars," annual meeting of the <u>Society for Human</u> Brain Mapping, Barcelona, Spain, 2010.
- Harrell, K. M., Marco, E. J., Paul, L. K., Sherr, E. and Brown, W. S. "Verbal and Design Fluency in Agenesis of the Corpus Callosum", *International Neuropsychological Society*, Boston, February, 2011.
- Erickson, R. L., Paul, L. K. and Brown, W. S. "Deficient Delayed Memory on the CVLT-II in Individuals with Agenesis of the Corpus Callosum", *International Neuropsychological Society*, Boston, February, 2011.
- Legardy, S. N., Paul, L.K., & Brown, W. S. "Longitudinal Study of Crystallized versus Fluid Intelligence in Agenesis of the Corpus Callosum", *International Neuropsychological Society*, Boston, February, 2011.
- Pazienza, S. R., Brown, W. S. and Paul, L. K. "Emotional Expressiveness and Somatization in Agenesis of the Corpus Callosum", *International Neuropsychological Society*, Boston, February, 2011.
- Erickson, R. L., Paul, L. K. and W. S. Brown, "Visual Memory in Agenesis of the Corpus Callosum: Faces and Visual Reproduction" *International Neuropsychological Society*, Montreal, February, 2012.
- Young, C., Reimer, K., Paul, L. K., and Brown, W. S. "Awareness of Consequences in Agenesis of the Corpus Callosum", *International Neuropsychological Society*, Montreal, February, 2012.
- Birath, B., Paul, L. K., Turk, A., and Brown, W. S. "Discourse Coherence on the Thematic Apperception Test in Agenesis of the Corpus Callosum" *International Neuropsychological Society*, Montreal, February, 2012.

INVITED PRESENTATIONS AND MAJOR LECTURES:

"ERP Methods in Neurolinguistic Research". Invited address at the meeting of the Western EEG Society. Reno, Nevada, February, 1981.

- "Long latency event-related potentials: Applications in Clinical Psychiatry". Invited faculty for Application of Evoked Potentials in Clinical Medicine". Southwest Regional Medical Education Center and V.A. Medical Center, Wadsworth, July, 1981.
- "Hemispheric differences demonstrated by evoked response studies." <u>The Dual Brain: Hemispheric specialization in the Human.</u> UCLA Extension Conference, Jan. 1984.
- "Event-Related Potentials and Neuropsychological Correlates in Dementia and Other Disorders of the CNS". California Neuropsychological Society. July, 1985.
- Marsh, J.T. and Brown, W.S. "Event Related Potentials". At the Workshop on Early Diagnosis of Alzheimer's Disease, The J.D. French Foundation, Nov. 6-7, 1985.
- "P300 Latency Changes in Progressing Dementia". International Congress on Evoked Potentials. Budapest. May, 1992.
- "Brain Electrical Fields and Cognition". Keynote Address at the Opening of the Key Foundation for Brain-Mind Research, Zurich, Switzerland, June, 1994.
- "Clinical Neuropsychological Assessment of Callosal Dysfunction: Multiple Sclerosis and Dyslexia".

 <u>The Role of the Corpus Callosum in Sensory Motor Integration.</u> NATO Advanced Studies
 Institute: Tuscany, Italy, Sept. 1996
- "What is Human Dignity". <u>Identity, Formation, Dignity --- The Impacts of Artificial Intelligence and Cognitive Science upon Jewish and Christian Understandings of Personhood</u>. MIT Artificial Intelligence Laboratory, The Boston Theological Institute, and the Center for Faith and Science Exchange. April 30 May 2, 1998.
- "Cognitive Contributions to Soul". <u>Portraits of Human Nature</u>. Joint meeting of the American Scientific Affiliation and Christians in Science, Cambridge, UK, August, 1998.
- "Cognitive Neuroscience, Personal Relatedness and Soul". Invited speaker at conference on <u>Brain, Soul and Moral Agency</u>, Center for the Natural Science. At George Fox University, Sept. 1998.
- "The Interpersonal Significance of a Fork: What Biomedical Engineering Should Do". Invited speaker at session on Biotechnology and Bioengineering: Medical Technology Pespective. Wescon/IC Expo, Sept. 1998.
- "Wisdom and Human Neurocognitive Systems: Perceiving and Practicing Laws of Life" Templeton Foundation Conference on The Science of Wisdom and the Laws of Life, Fuller Seminary, Oct. 1998.
- "Whatever Happened to the Soul?" Meeting of Christians in Neuroscience, Society for Neuroscience, Los Angeles, 1998.
- "Cognitive Neuroscience and a Wesleyan View of the Person" Presented at The Inaugural Meeting of the Society for Psychology and Wesleyan Theology. Point Loma Nazarene University, San Diego, Feb, 1999.
- "Top-Down Causation and Free Will". Conference on <u>Neuroscience, Mental Causation, and Freedom of the Will.</u> Center for Theology and Natural Sciences, Berkeley, April 8, 1999.
- "Neurocognitive Perspectives on Determinism and Free Will", Society of Christian Philosophers, Pacific Region, 2000.
- "Neuropsychology of Agenesis of the Corpus Callosum." Continuing Education Class, (with Lynn Paul) International Neuropsychological Society, 2001.

- "Whatever Happened to the Soul? First Annual Ladd Integration Lectures, Southern Nazarene University, Spring, 2001.
- "Neuroscience, Relatedness, and Soul" Trinity Institute's 32nd National Conference, Trinity Church, Wall Street, New York City, May, 2001
- "Freedom and Will: Seeking Resonance between Neuroscience and Wesleyan Theology." Keynote Speaker, Wesleyan Theological Society, March, 2002.
- "Body and Soul, or Soulish Body? Finding Resonance between Neuroscience, Psychology, and Theology." Scandrette Lecture, Wheaton College, April, 2002.
- "Neuropsychology and the Soul" R.S. Beal, Sr., Lecture, Colorado Christian University, Oct., 2002.
- "The Quiet Disabler", Plenary Lecture at the Educap Conference, Point Loma Nazarene University, March, 2003.
- "Emergence and Mental Causation" Conference on <u>Reductionism and Emergence</u>, University of San Francisco, 2003.
- "Agenesis of the Corpus Callosum: The", National Organization of Disorders of the Corpus Callosum, Tulsa, 2003, 2004, 2005, 2006, 2007, 2008, 2009.
- "How to Reconcile Science and Faith: The Problem of Human Nature", Ladd Lectures, Southern Nazarene University, 2003.
- "Whatever Happened to the Soul? Finding Resonance Between Neuroscience, Psychology, and Theology" Beck Lecture on Science and Religion, Southwest College, Kansas, February, 2004.
- "Human Evolution and Human Nature: Scientific, Historical, and Theological Perspectives", Kansas State University, April, 2004.
- "Did my neurons make be do it? From Physicalism to Moral Agency"; Plenary Address, Joint meeting of the American Scientific Affiliation and the Canadian Scientific Affiliation, Trinity College, Vancouver B.C., July 25, 2004.
- "Understanding dualism without escaping to dualism"; Conference of The Gifts of Suffering: Spiritual Transformation, Science and Medicine, at the Joint meeting of the <u>American Scientific Affiliation</u> and the <u>Canadian Scientific Affiliation</u>, Trinity College, Vancouver B.C., July 25, 2004.
- "Neuropsychology and the Soul: Finding Resonance Between Neuroscience, Psychology, and Theology" Mt. Vernon Nazarene College, 2004 Lecturer/Artist Series, Nov. 9, 2004.
- "Neuropsychology of Agenesis of the Corpus Callosum" (W.S.Brown and L.K. Paul). Three-hour continuing education class at the <u>National Academy of Neuropsychology</u>, 2004 Conference, Seattle, WA.
- "Science, Faith, and Human Nature: Reconciling Neuroscience and Christian Theology", Fuller Graduate School of Psychology Integration Lectureship. Feb. 16-18, 2005.
- "Human Nature, Physicalism, Spirituality, and Healing: Theological Views of a Neuroscientist".

 Symposium on the Theological Interpretation of Scripture, North Park Theological Seminary, September, 2005
- Gilbert Lectures on Christianity and Psychiatry, Nazarene Theological Seminary, October, 2005.
 - "Numinous or Embodied Persons? The Practical Costs of Inner Souls or Selves"
 - "The Knotty Theological Implications of Recent Neuroscience Research"
 - "Renewing the Physical Mind: Brain Systems, Emergence, Free Will, and Sanctification"

- "Dynamic Brain Systems: Toward an Understanding of Embodied Human Agency". Conference on Nonsupervenience. Ursinus College, Collegeville, PA., May, 2005.
- "A Thinking Reed: Emergence of Mind and Soul from Human Bodies" *Pascal Lecture*, Westmont College, April, 2006.
- Response to Stephen Post and John B. Cobb, Conference on Altruistic Love, Claremont, April 15, 2005
- "Nonreductive Human Uniqueness: Immaterial, Biological, or Psychosocial?" International Society for Science and Religion, Cambridge University, UK, July, 2006.
- "Reconciling Neuropsychology and Theology", Faraday Institute for Science and Religion. Cambridge University, UK, July, 2006.
- "Neuropsychology, Emergence, and Human Agency" Conference on *Emergence: A Better Vision of Nature, Science and Religion?* Zygon Center for Religion and Science, Lutheran School of Theology at Chicago, Sept. 28-30, 2006
- "Knotty Theological Implications of Modern Neuroscience" Keynote address at the *Frazee Lectures/Pollard Symposium*, Linfield College, Oregon, Oct., 2006.
- "Persons, Groups, and the Church". Presented at the Wesleyan Theological Society: March, 2007
- "Human Relationality and Social Neuroscience: Implications for Theology" *Conference on Open Theology and Science*, Eastern Nazarene College, July, 2007.
- "The Natural Split-Brain: Cognition, Mind, and Will" and "Did My Neurons Make Me Do It? Neuroscience, Emergence, and Free Will" *Symposium on Neuroscience and Christian Faith*, University of British Columbia and Trinity Western University, Vancouver, September 25 and 26, 2008.
- "Did my neurons make me do it? The Brain, the Mindand Non-reductive Physicalism" and "Neuroscience, Morality and Virtue", Faraday Institute for Science and Religion, Cambridge, UK, July, 2009
- "Mind, Brain or Soul?" Annual Symposium on Science and Faith, La Jolla Prebyterian Church, March, 2010.
- "Neuroscience, Psychology, and Faith: Levels of Explanation and the Search for Resonance", Conference on Christianity and Psychology: Five Views, The Bryan Institute for Critical Thought and Practice, Dayton, TN, March, 2010.
- Warren Brown and Michael Spezio, "Virtue Ethics, Neuroscience, and the Transcendent: New Insights from the Interaction Between Neuroscience, Psychology, Philosophy and Theology. STARS Conference, Center for Theology and Natural Science, Berkley.
- Lecturer for *Voices in Interdisciplinary Studies and Integration*, Dept of Graduate Psychology, Azusa Pacific University, March 15-16, 2011.
 - Knotty Implications of Neuropsychology: Brain, Mind, Self & Soul
 - The Mimetic Nature of Human Relations: The Roots of Interpersonal Conflict
 - Views of Human Nature and Implications for Christian Formation and the Church
- "Knotty Implications of Neuropsychology: Brain, Mind, Self & Soul"
 - Science and Religion lecture, University of South Dakota, March, 2012
 - Conversations in Theology and Science, University of Sioux Falls, March, 2012

- Science and Religion lecture, University of South Carolina, March, 2012
- Brain Week Lecture, Azusa Pacific University, March, 2012

"Brain Connectivity and the Emergence of Mind: Reflections from Callosal Agenesis and Autism", Philosophy and Psychology invited lecture, South Dakota State University, March, 2012

OTHER INVITED LECTURES AT UNIVERSITIES AND HOSPITALS

Department of Neurology, University Hospital, Zurich, Switzerland, November, 1976.

Department of Psychology and Sociology, University of Konstanz, Germany, March, 1977.

Department of Psychology, University of Dundee, Scotland, May, 1977.

Institute of Physiology, School of Medicine, University of Lausanne, Switzerland. June, 1977.

Psychiatric Hospital, I.N.S.E.R.M., Lyon, France. August, 1977.

U.S.C. Department of Education, Extension, Frankfurt and Nuremberg, Germany. 1977.

Summer Psychology Tour, Covenant College, Tennessee, Summers 1978-1981.

Point Loma College, Science Lecture Series, San Diego, California, Spring, 1980.

C.M.E. Seminar, Brotman Medical Center, Oct., 1983.

Psychology Colloquium, California State University, Fullerton, Jan., 1984.

City of Hope National Medical Center, Dept. of Pediatrics, Nov., 1984.

University of Southern California Medical School, Dept. of Pediatrics. May, 1985.

Orange County Neuropsychology Group, Sept. 18, 1985.

Boston V.A. Hospital, Neuropsychology Group, April 10, 1986.

Brain Research Institute and Neurological Clinic, University of Zurich, Switzerland, June, 1986.

Department of Communication and Neuroscience, University of Keele, England, 1986.

Depart, of Postgraduate Medicine: Division of Psychiatry. University of Keele, England, 1986.

Psychology Colloquium, Dept. of Psychology, University of St. Andrews, Scotland, Oct., 1986.

U. S. Public Health Service, University of Maryland, March, 1987.

Institute of Psychology, Academy of Sciences, Moscow, Russia, 1991.

Pedagogical Institute, Kiev, Ukraine, 1991.

Della Martin Center for Behavioral Services, Huntington Hospital, Pasadena, Calif., Feb. 1994.

Physiology Institute, Justus-Liebig University, Giessen, Germany, June, 1994.

Northwest Nazarene College, Nampa, Idaho, June, 1995.

Children's Hospital of Orange County, March, 1997.

Eastern Nazarene University, Quincey, MA, May, 1998.

George Fox University, Newburg, Oregon, Sept., 1998.

University of California, Riverside, April, 1999.

Northwest Nazarene University, Faculty Retreat, McCall, Idaho, Sept. 1999.

Covenant College, September, 2002 (2 lectures)

Calvin College, October, 2002. (2 lectures)

UCLA Neuropsychiatric Institute, Intern seminar. March, 2005.

Point Loma Nazarene University, March, 2006.

Westmont College, April, 2006

University of St. Andrews, Scotland, 2009

UC Irvine, 2009

Claremont Colleges, 2009