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## EDUCATION

William Woods College	1971-72		
University of Kansas	1972-75	B.S.	1975 Speech Pathology
University of Kansas	1975-76	M.A.	1976 Speech Pathology
University of Arizona	1979-81, 1986-90	Ph.D.	1990 Speech & Hearing Sciences Minor: Psychology

Master's Thesis: The Effect of Gestural Training on the Acquisition of Lexical Items  
Kenneth Ruder, Ph.D., Thesis Director

Doctoral Dissertation: Memory Impairment Associated with Stroke and Aphasia  
Kathryn A. Bayles, Ph.D., Dissertation Director

## PROFESSIONAL EMPLOYMENT

1976-79	Speech-Language Pathologist Alaska Crippled Children and Adults Speech and Language Center, Fairbanks Instructor, Speech Pathology, University of Alaska – Fairbanks
1982-84	Clinical Supervisor and Academic Tutor American Indian Professional Training Program in Speech Pathology & Audiology, Department of Speech & Hearing Sciences, University of Arizona
1984-86	Program Coordinator, American Indian Professional Training Program in Speech Pathology & Audiology, Department of Speech & Hearing Sciences, University of Arizona
1990-94	Research Speech-Language Pathologist, Rehab Institute of Tucson
1990-2000	Assistant Research Scientist, Departments of Speech & Hearing Sciences and Neurology, University of Arizona
1991-2000	Assistant Research Scientist, National Center for Neurogenic Communication Disorders, University of Arizona
1995-current	Consultant, Speech Pathology Section, Tucson Veteran's Affairs Medical Center
2000-2001	Associate Research Scientist, National Center for Neurogenic Communication Disorders, and Dept. of Speech & Hearing Sciences, Dept. of Neurology

- 2001 – 2009 Associate Professor, Department of Speech & Hearing Sciences and  
Department of Neurology
- 2005 – present Member, Graduate Interdisciplinary Program in Cognitive Science, University  
of Arizona
- 2009 – present Professor, Department of Speech & Hearing Sciences and  
Department of Neurology
- 2011- present Professor and Head, Department of Speech & Hearing Sciences  
The University of Arizona, Tucson, Arizona

### **HONORS AND AWARDS**

- 1987 Faculty/Staff Award: Outstanding Contribution to Native American Students,  
University of Arizona
- 1995 Elected to Steering Committee for ASHA Special Interest Division 2:  
Neurophysiology and Neurogenic Communication Disorders
- 1996 Elected Coordinator of ASHA Special Interest Division 2: Neurophysiology and  
Neurogenic Communication Disorders
- 1998 Nominated for Outstanding Faculty Mentor, University of Arizona
- 1998 Voted to Academy of Aphasia
- 2001 Fellow, American Speech-Language-Hearing Association
- 2004 Keynote Speaker, International Aphasia Rehabilitation Conference, Milos, Greece
- 2006 Award of Appreciation from University of Arizona Chapter of National Student  
Speech Language Hearing Association
- 2006 Keynote Speaker, International Aphasia Rehabilitation Conference, Sheffield,  
England
- 2008 Elected to Board of Directors, Pima Council on Aging
- 2008 Elected to Research Group on Aphasia and Cognitive Disorders, World  
Federation of Neurology
- 2009 Outstanding Mentor Award from the Graduate & Professional Student  
Association, University of Arizona

### **PROFESSIONAL CERTIFICATION AND ASSOCIATION MEMBERSHIP**

- Certificate of Clinical Competence in Speech-Language Pathology, American  
Speech-Language-Hearing Association, 1977
- Board Certified by Academy of Neurologic Communication Disorders and Sciences in  
Neurologic Communication Disorders in Adults, 1994
- Member, American Speech-Language-Hearing Association
- Member, ASHA Special Interest Division #2: Neurogenic Communication Disorders and  
Sciences
- Member, Arizona Speech-Language-Hearing Association
- Member, International Neuropsychological Association
- Member, Academy of Neurologic Communication Disorders and Sciences
- Member, Academy of Aphasia
- Member, National Aphasia Association

## PUBLICATIONS

### Scholarly Books

- Plante, E. & Beeson, P.M. (1999). *Communication and communication disorders: A clinical introduction*. Needham Heights, MA: Allyn & Bacon.
- Rapp, B. & Beeson, P.M. (Eds.) (2003). *Dysgraphia: cognitive processes, remediation, and neural substrates*. Special volume of *Aphasiology*. Psychology Press: Philadelphia, PA.
- Plante, E. & Beeson, P.M. (2004). *Communication and communication disorders: A clinical introduction, Second Edition*. Needham Heights, MA: Allyn & Bacon.
- Plante, E. & Beeson, P.M. (2008). *Communication and communication disorders: A clinical introduction, Third Edition*. Needham Heights, MA: Allyn & Bacon.
- Plante, E. & Beeson, P.M. (2012-in press). *Communication and communication disorders: A clinical introduction, Fourth Edition*. Needham Heights, MA: Allyn & Bacon.

### Book Chapters

- Holland, A., & Beeson, P. (1995). Aphasia therapy. In Kirshner, H. (Ed.), *Handbook of neurological speech & language disorders* (pp. 445-463). New York: Marcel Dekker, Inc.
- Holland, A., Beeson, P., and Del Toro, J. (1995). Aphasia and cerebral plasticity. In *Actes du 7<sup>e</sup> congrès: Plasticité cérébrale et stimulation cognitive* (Proceedings of the 7th Congress of National Gerontology Foundation: Cerebral plasticity and cognitive stimulation) (pp 79-90). Paris: Foundation Nationale de Gérontologie.
- Beeson, P.M. & Bayles, K.A. (1997). Aphasia. In P.D. Nussbaum (Ed.), *Handbook of neuropsychology and aging*. (pp. 298-314). New York: Plenum Publishing Corporation.
- Beeson, P.M. (1998). Treatment for letter-by-letter reading: A case study. In N. Helm-Estabrooks & A.L. Holland (Eds.) *Approaches to the treatment of aphasia* (pp. 153-177). Singular Clinical Competence Series, San Diego: Singular Press.
- Beeson, P.M. & Rapcsak, S.Z. (1998). The aphasias. In P.J. Snyder and P.D. Nussbaum (Eds.), *Clinical neuropsychology: A pocket handbook for assessment* (pp. 403-425). Washington, D.C.: American Psychological Association.
- Holland, A.L. & Beeson, P.M. (1999). Aphasia groups: The Arizona experience. In R. Elman (Ed), *Group treatment of neurogenic communication disorders: The expert clinician's approach*. Boston, MA: Butterworth-Heinemann.
- Hirsch, F. & Beeson, P.M. (2000). Speech, language, and hearing intervention in adults. In M. Grabois, S.J. Garrison, K.A. Hart, & D.L. Lehmkuhl (Eds.), *Physical medicine and rehabilitation: The complete approach* (pp.762-776). Malden, MA: Blackwell Science, Inc.
- Rapcsak, S.Z., & Beeson, P.M. (2000). Agraphia. In L.J.G. Rothi, B. Crosson, and S. Nadeau (Eds.) *Aphasia and language: Theory and practice* (pp. 184-220). New York: Guilford.
- Beeson, P. M. (2000). Perspektívy afaziológie [Perspectives on aphasiology]. *Acta aphasiologica*. Bratislava: Centrum pre dysfluencie, pp. 3-5.
- Beeson, P.M. & Hillis, A.E. (2001). Comprehension and production of written words. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fourth Edition* (pp. 572-595). Baltimore, MD: Lippencott, Williams & Wilkins.
- Rapcsak, S.Z. & Beeson, P.M. (2002). Agraphia. In V.S. Ramachandran (Ed.) *Encyclopedia of the human brain* (pp. 71-86). San Diego: Elsevier Science. [Scholarly encyclopedia]

- Beeson, P.M. & Rapcsak, S.Z. (2002). Clinical diagnosis and treatment of spelling disorders. In A. E. Hillis (Ed.). *Handbook on adult language disorders: Integrating cognitive neuropsychology, neurology, and rehabilitation* (pp. 101-120). Philadelphia: Psychology Press.
- Rapcsak, S.Z. & Beeson, P.M. (2002). Neuroanatomical correlates of spelling and writing. In A.E. Hillis (Ed.). *Handbook on adult language disorders: Integrating cognitive neuropsychology, neurology, and rehabilitation* (pp. 71-99). Philadelphia: Psychology Press.
- Beeson, P.M. & Rapcsak, S.Z. (2003). Treatment of alexia and agraphia. In J. Noseworthy (Ed), *Neurological therapeutics: Principles and practice* (pp. 2733-2750). London: Martin Dunitz.
- Beeson, P.M. & Rapcsak, S.Z. (2003). Neuropsychological assessment and treatment of writing disorders. In P. Halligan, Kischka, and J. Marshall (Eds.) *The Handbook of Clinical Neuropsychology* (pp. 281-301). Oxford, UK: Oxford University Press.
- Beeson, P.M. & Rapcsak, S.Z. (2003). Agraphia. In R.D. Kent (Ed.) *The MIT Encyclopedia of Communication Disorders* (pp. 233-236). Cambridge, MA: The MIT Press.
- Beeson, P.M. & Rapcsak, S.Z. (2006). The aphasias. In P.J. Snyder and P.D. Nussbaum (Eds.), *Clinical neuropsychology: A pocket handbook for assessment, Second Edition* (pp. 436-459). Washington, D.C.: American Psychological Association.
- Beeson, P.M. & Rapcsak, S.Z. (2006). Treatment of alexia and agraphia. In J. H. Noseworthy (Ed), *Neurological therapeutics: Principles and practice, Second Edition* (pp. 3045-3060). London: Martin Dunitz.
- Beeson, P.M. & Holland, A.L. (2007). Aphasia groups in a university setting. In R.Elman (Ed), *Group treatment of neurogenic communication disorders: The expert clinician's approach, Second Edition*. San Diego, CA: Plural Publishing.
- Beeson, P.M. & Henry, M.L. (2008). Comprehension and production of written words. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fifth Edition* (pp. 654-688). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.
- Beeson, P.M. & Rapcsak, S.Z. (2010). Neuropsychological assessment and treatment of writing disorders. In J. Gurd, Kischka, and J. Marshall (Eds.) *Oxford Handbook of Clinical Neuropsychology, Second Edition* (pp. 323-348). Oxford, UK: Oxford University Press.
- Beeson, P.M., Rising, K. & Rapcsak, S.Z. (2011). Acquired impairments of reading and writing. L.L. LaPointe (Ed.) *Aphasia and related neurogenic language disorders, 4<sup>th</sup> Edition*. NY: Thieme Publishers (pp. 121-137).
- Beeson, P.M. & Rapcsak, S.Z. (2011). Agraphia. In the *Encyclopedia of Clinical Neuropsychology*. Kreutzer, J., DeLuca, J., & Caplan, B. (Eds.) (pp. 55-60). NY: Springer-Verlag.
- Rapcsak, S.Z. & Beeson, P.M. (2011). Alexia. In the *Encyclopedia of Clinical Neuropsychology* (pp. 77-83). NY: Springer-Verlag.

### **Refereed Journal Publications**

- Rapcsak, S.Z., Beeson, P.M., and Rubens, A.B. (1991). Writing with the right hemisphere. *Brain and Language*, 41, 510-530.
- Rapcsak, S.Z., Ochipa, C., Beeson, P.M., and Rubens, A.B. (1993). Praxis and the right hemisphere. *Brain and Cognition*, 23, 181-202.

- Beeson, P.M., Bayles, K.A., Rubens, A.B., and Kaszniak, A.W. (1993). Memory impairment and executive control in individuals with stroke-induced aphasia. *Brain and Language*, 45, 253-275.
- Holland, A. & Beeson, P. (1993). Finding a new sense of self: What the clinician can do to help. A reply to Brumfit's Losing one's sense of self following stroke. *Aphasiology*, 7, 569-591.
- Beeson, P.M., Rapcsak, S.Z., Rubens, A.B., and Bayles, K.A. (1994). Verbal learning with the right hemisphere. In Lemme, M., (Ed.) *Clinical Aphasiology*, 22, 53-65, Austin: Pro-Ed.
- Beeson, P.M., Rubens, A.B., & Kaszniak, A.W. (1995). Anterograde memory impairment in Pick's Disease: Letter to the editor. *Archives of Neurology*, 52, 742.
- Beeson, P.M. & Holland, A.L. (1995). New technologies and intervention approaches: A new look at aphasia groups. *Topics in Stroke Rehabilitation*, 2, 85-88.
- Beeson, P.M., Holland, A.L. & Murray, L.L. (1995). Confrontation naming and the provision of superordinate, coordinate, and other semantic information by individuals with aphasia. *American Journal of Speech-Language Pathology*, 4, 135-138.
- Lowell, S., Beeson, P.M., & Holland, A.L. (1995). The efficacy of a semantic cueing procedure on naming abilities of adults with aphasia. *American Journal of Speech-Language Pathology*, 4, 109-114.
- Beeson, P.M. & Holland, A.L. (1996). Nouveau regard sur les groupes d'aphasiques (A new look at aphasia groups). *Glossa*, 50, 48-51.
- Beeson, P.M., Murray, L.L., & Holland, A.L. (1997). Naming famous people: An examination of tip-of-the-tongue phenomenon in aphasia and Alzheimer's disease. *Aphasiology*, 11, 323-336.
- Murray, L.L., Holland, A.L. & Beeson, P.M. (1997). Accuracy monitoring and task demand evaluation in aphasia. *Aphasiology*, 11, 401-414.
- Murray, L.L., Holland, A.L., & Beeson, P.M. (1997). Auditory processing in individuals with mild aphasia: A study of resource allocation. *Journal of Speech, Language, and Hearing Research*, 40, 792-808.
- Murray, L. L., Holland, A. L., & Beeson, P. M. (1997). Grammaticality judgments of mildly aphasic individuals under dual-task conditions, *Aphasiology*, 11, 993-1016.
- Murray, L.L., Holland, A.L., & Beeson, P.M. (1998). Spoken language of individuals with mild fluent aphasia under focussed and divided attention conditions. *Journal of Speech, Language, and Hearing Research*, 41, 213-227.
- Beeson, P.M. & Insalaco, D. (1998). Acquired alexia: Lessons from successful treatment. *Journal of the International Neuropsychological Society*, 4, 621-635.
- Beeson, P.M. (1999). Treating acquired writing impairment: Strengthening graphemic representations. *Aphasiology*, 13, 367-386.
- Beeson, P.M. & Rapcsak, S.Z. (2000). Toward a theory of therapy for aphasia. *Brain and Language*, 71, 22-25.
- Beeson, P.M., Rewega, M., Vail, S.M., & Rapcsak, S.Z. (2000). Problem-solving approach to agraphia treatment: Interactive use of lexical and sublexical spelling routes. *Aphasiology*, 14, 551-565.
- Beeson, P.M. & Ramage, A.E. (2000). Drawing from experience: The development of alternative communication strategies. *Topics in Stroke Rehabilitation*, 7, 10-20.
- Beeson, P.M., Hirsch, F., & Rewega, M. (2002). Successful single-word writing treatment: Experimental analysis of four cases. *Aphasiology*, 16, 473-491.

- Fridriksson, J., Holland, A.L., Coull, B.M., Plante, E., Trouard, T., & Beeson, P.M. (2002). Aphasia severity: Association with cerebral perfusion and diffusion. *Aphasiology*, *16*, 859-871.
- Beeson, P.M., Rapcsak, S.Z., Plante, E., Chargualaf, J., Chung, A., Johnson, S.C. & Trouard, T. (2003). The neural substrates of writing: A functional magnetic resonance imaging study. *Aphasiology*, *17*, 647-665.
- Clausen, N. S. & Beeson, P.M. (2003). Conversational use of writing in severe aphasia. *Aphasiology*, *17*, 625-644.
- Beeson, P. M., Rising, K., & Volk, J. (2003). Writing treatment for severe aphasia. *Journal of Speech, Language, Hearing Research*, *46*, 1038-1060.
- Frattali, C., Bayles, K., Beeson, P., Kennedy, M.R.T., Wambaugh, J. & Yorkson, K.M. (2003). Development of evidence-based practice guidelines: Committee update. *Journal of Medical Speech-Language Pathology*, *11* (3), ix-xviii.
- Rapp, B. & Beeson, P.M. (2003). Dysgraphia: cognitive processes, remediation, and neural substrates. *Aphasiology*, *17*, 531-534.
- Beeson, P.M. (2004). Remediation of written language. *Topics in Stroke Rehabilitation*, *11*, 37-48.
- Rapcsak, S.Z. & Beeson, P.M. (2004). The role of left posterior inferior temporal cortex in spelling. *Neurology*, *62*, 2221-2229.
- Antonucci S, Beeson PM, Rapcsak SZ. (2004). Anomia in patients with left inferior temporal lobe lesions. *Aphasiology*, *18*, 543-554.
- Fridriksson, J., Holland, A.L., & Beeson, P.M. (2005). Spaced retrieval treatment in anomia. *Aphasiology*, *19*, 99-109.
- Orjada, S. & Beeson, P.M. (2005). Concurrent treatment for reading and spelling in aphasia. *Aphasiology*, *19*, 341-351.
- Beeson, P.M., Magloire, J., & Robey, R.R. (2005). Letter-by-letter reading: Natural recovery and response to treatment. *Behavioural Neurology*, *16*, 191-202.
- Beeson, P.M. & Egnor, H. (2006). Combining treatment for written and spoken naming. *Journal of the International Neuropsychological Society*, *12*, 816-827.
- Beeson, P.M. & Robey, R.R. (2006). Evaluating single-subject treatment research: Lessons learned from the aphasia literature. *Neuropsychology Review*, *16*, 161-169.
- Henry, M.L, Beeson, P.M., Stark, A.J., & Rapcsak, S.Z. (2007). The role of left perisylvian cortical regions in spelling. *Brain and Language*, *100*, 44-52.
- Rapcsak, S.Z., Henry, M.L., Teague, S., Carnahan, S.D., & Beeson, P.M. (2007). Do dual-route models accurately predict reading and spelling performance in individuals with acquired alexia and agraphia? *Neuropsychologia*, *45*, 2519-2524.
- Antonucci, SA, Beeson, PM, Labiner, D, & Rapcsak, SZ. (2008). Naming and semantic knowledge in patients with left inferior temporal lobe lesions, *Aphasiology*, *22* (3), 281-304.
- Raymer, A.M., Beeson, P.M., Holland, A., Kendall, D., Maher, L.M., Martin, N., Murray, L., Rose, M., Thompson, C. K., Turkstra, L., Altmann, Boyle, M., Conway, T., & Hula, W. (2008). Translational research in aphasia: From neuroscience to neurorehabilitation. *Journal of Speech, Language, and Hearing Research*, *51*, S259-S275.
- Henry, M.L., Beeson, P.M., & Rapcsak, S.Z. (2008) Treatment for anomia in semantic dementia. *Seminars in speech and language*, *29*(1), 60-70.
- Beeson, P.M., Rising, K., Kim, E.S., & Rapcsak, S.Z. (2008). A novel method for examining response to spelling treatment. *Aphasiology*, *22*, 707-717.

- Kim, E.S., Bayles, K.A., Beeson, P.M. (2008). Instruction processing in young and older adults: Contributions of memory span. *Aphasiology*, 22, 753-762.
- Henry, M.L., Beeson, P.M., & Rapcsak, S.Z. (2008). Treatment for lexical retrieval in progressive aphasia. *Aphasiology*, 22, 828-838.
- Rapcsak, S.Z., Beeson, P.M., Henry, M.L., Leyden, A., Kim, E., Rising, K., Andersen, S. Cho, H. (2009). Phonological dyslexia and dysgraphia: cognitive mechanisms and neural substrates. *Cortex*, 45, 575-591.
- Beeson, P.M., Rising, K., Kim, E. & Rapcsak, S.Z. (2010). A treatment sequence for phonological alexia/agraphia. *Journal of Speech, Language, Hearing Research* 53, 450-468.
- Andersen, S.M., Rapcsak, S.Z., & Beeson, P.M. (2010). Cost function masking during normalization of brains with focal lesions: Still a necessity? *NeuroImage*, 53(1), 78-84.
- Beeson, P.M., King, R.M., Bonakdarpour, B., Henry, M.L., Cho, H., & Rapcsak, S.Z. (2011). Positive effects of language treatment for the logopenic variant of primary progressive aphasia. *Journal of Molecular Neuroscience*, 45, 724-736.
- Kim, E.S., Rapcsak, S.Z., Andersen, S.M., & Beeson, P.M. (2011). Multimodal alexia: Neuropsychological mechanisms and implications for treatment. *Neuropsychologia*, 49(13), 3551-3562.
- Henry, M., Beeson, P.M., Alexander, G. & Rapcsak, S.Z. (2012). Written language impairments in primary progressive aphasia: A reflection of damage to central semantic and phonological processes. *Journal of Cognitive Neuroscience*, 24 (2), 261-275.
- Meinzer, M., Cappa, S., Crosson, B., Beeson, P.M., Crinion, J., Kiran, S., & Thompson, C.K. (2012). Neuroimaging in aphasia treatment research: Consensus and practical guidelines for data analysis. doi:10.1016/j.neuroimage.2012.02.058

## **Other Publications**

### ***Book Reviews***

- Beeson, P.M. (1996). Book review. [Review of the book *Aphasia - A new life: A handbook for helping communities*.] *Aphasiology*, 10, 815.
- Beeson, P.M. (2000). Book review. [Review of the book *Pure alexia: Letter-by-letter reading*]. *Aphasiology*, 14, 775-776.

### ***Newsletter/Magazine***

- Beeson, P.M. (1993). Memory impairment associated with stroke-induced aphasia. In ASHA Special Interest Division #2: Neurophysiology and Neurogenic Speech and Language Disorders Newsletter, Volume 2, Number 3.
- Beeson, P.M. & Holland, A.L. (1994). Looking at small group treatment with new hope. *Advance for Directors in Rehabilitation*, 3, 21-22.
- Henry, M.L. & Beeson, P.M. (2006). Primary progressive aphasia and semantic dementia. In ASHA Special Interest Division #2: Neurophysiology and Neurogenic Speech and Language Disorders, 16 (1), 21-27.
- Beeson, P.M. (2010 July). Neuroimaging research: Brain behavior relationships and language. *ASHA Leader Magazine*, 18-21.

## **Media Presentations and Participation**

- Telerounds Discussant: The JCAHO Patient Rights Standards: Implications for Assessing Patients' Competence. National Center for Neurogenic Communication Disorders. November, 1992.
- Telerounds Discussant: Aphasic Agrammatism: Underlying Nature and Overt Mechanisms. Discussant. National Center for Neurogenic Communication Disorders. April, 1993.
- Telerounds Presenter: Beeson, P.M. & Holland, A.L. (1994, September). Aphasia groups: An approach to long-term rehabilitation. Telerounds Program #19, National Center for Neurogenic Communication Disorders.
- Telerounds Presenter: Beeson, P.M. & Rapcsak, S.Z. (1995, February). Chronic Broca's aphasia: Evidence for right hemisphere language. Telerounds Program #22, National Center for Neurogenic Communication Disorders.
- Telerounds Presenter: Beeson, P.M. (2001, October). Writing treatment for severe aphasia. Telerounds Program #61, National Center for Neurogenic Communication Disorders.
- Telerounds Moderator: Plante, E. (2002, February). Neurobiological correlates of normal and disordered language development. Telerounds Program #63, National Center for Neurogenic Communication Disorders.
- Neurology & Neurosurgery Grand Rounds Presentation: Beeson, P.M. (2006, April 28). The nature and treatment of acquired impairments of written language. University of Arizona Health Sciences Center, Tucson, AZ. [Web-based videostreaming]  
<http://video.biocom.arizona.edu/video/videolibrary/NeuroGR/>
- University of Arizona Honors Luncheon Speaker. How the brain supports language. (2009, March). <http://deimos3.apple.com/WebObjects/Core.woa/Browse/arizona-public.1705207372>

## **SCHOLARLY PRESENTATIONS (since 2003)**

### **Local Colloquia/Datablitz/Grand Rounds**

- Beeson, P.M. (2003 January). The neural substrates of writing. Neurology Grand Rounds, The University of Arizona Health Sciences Center, Tucson, AZ.
- Beeson, P.M. (2004, September). The neural substrates of written language. Invited presentation to Cognitive Sciences Program, University of Arizona.
- Beeson, P.M. (2006, February). Neuroplasticity in chronic and progressive aphasia. Datablitz presentation at the 4<sup>th</sup> Annual Retreat for the Arizona Alzheimer's Research Center: Arizona Alzheimer's Disease Core Center, Tucson, AZ.
- Beeson, P.M. (2006, April). The nature and treatment of acquired impairments of written language. Neurology & Neurosurgery Grand Rounds. University of Arizona Health Sciences Center, Tucson, AZ.
- Beeson, P.M. (2008, October). Evidence-based practice in aphasia treatment research. Colloquium presentation to the Department of Speech, Language, and Hearing Sciences, The University of Arizona.
- Beeson, P.M. (2010, January). *The role of neuroimaging in the study of written language*. Invited speaker, Radiology Research Conference, University of Arizona Medical Center.



Beeson, P.M. (2011, February). The nature and treatment of acquired language impairments. Invited presentation at Cognitive Science Brown Bag Lunch, University of Arizona.

Beeson, P.M. (2011, September). Aphasia research at the University of Arizona. Presentation to the Advisory Board for the School of Mind, Brain, & Behavior, The University of Arizona.

### **Symposia (since 2006)**

Thompson, C.A., Holland, A.L., Hillis, A., Garcia, L., Beeson, P.M., Basso, A., Martin, N., & Howard, D. (2006, March). Conflicting approaches to aphasia rehabilitation: Areas of convergence and divergence. Symposium presentation at the World Federation of Neurology Research Group on Aphasia and Cognitive Disorders, Buenos Aires, Argentina.

### **Peer-Reviewed Papers at Conferences (since 2006)**

Beeson, P.M., Balmford, A., & Rapcsak, S.Z. (2006, March). A treatment continuum for phonological alexia and agraphia. Presentation at the World Federation of Neurology Research Group on Aphasia and Cognitive Disorders, Buenos Aires, Argentina.

Rapcsak, S.Z., Henry, H.L., Beeson, P.M., Baxter, L., Ahern, G.L., & Caselli, R.J. (2006, March). Written language processing in semantic dementia versus left posterior cerebral artery stroke: Similarities and differences. Poster presentation at the World Federation of Neurology Research Group on Aphasia and Cognitive Disorders, Buenos Aires, Argentina.

Beeson, P.M., Henry, M.L., & Rapcsak, S.Z. (2007, February). Predicting reading and spelling performance in acquired alexia and agraphia. Poster presentation at the annual meeting of the International Neuropsychological Society, Portland, OR.

Beeson, P.M., White, B. & Rapcsak, S.Z. (2007, February). Toward a better understanding of response to agraphia treatment. Poster presentation at the annual meeting of the International Neuropsychological Society, Portland, OR.

Henry, M.L., Rapcsak, S.Z. & Beeson, P.M. (2007, February). Intensive semantic treatment for lexical retrieval in primary progressive aphasia. Poster presentation at the annual meeting of the International Neuropsychological Society, Portland, OR.

Rapcsak, S.Z., Henry, M.L., & Beeson, P.M. (2007, February). Alexia with agraphia following damage to left inferior temporo-occipital cortex. Poster presentation at the annual meeting of the International Neuropsychological Society, Portland, OR.

Rapcsak, S.Z., Henry, M.L., & Beeson, P.M. (2007, February). Reading and spelling: Two sides of the same coin? Poster presentation at the annual meeting of the International Neuropsychological Society, Portland, OR.

Beeson, P.M., Rising, K., Kim, E.S., & Rapcsak, S.Z. (2007, May). A novel means to examine response to spelling treatment. Poster presentation at the Clinical Aphasiology Conference, Phoenix, AZ.

Henry, M.L., Rapcsak, S.Z., & Beeson, P.M. (2007, May). Treatment for lexical retrieval in primary progressive aphasia compared with stroke-induced aphasia. Poster presentation at the Clinical Aphasiology Conference, Phoenix, AZ.

Hirsh, F., Beeson, P.M., & Holland, A.L. (2007, May). Evaluating change in the communication abilities of aphasia group participants: An investigation of informed versus blind responses on the communicative effectiveness index (CETI). Poster presentation at the Clinical Aphasiology Conference, Phoenix, AZ.

- Henry, M.L. & Beeson, P.M. (2007). Treatment for primary progressive aphasia and apraxia of speech: A case study. Platform presentation at the annual meeting of the Academy for Neurological Communication Disorders and Sciences. Boston, MA.
- Beeson, P.M., Carnahan, S.D., Henry, M.L., Rising, K., Kim, E.S., & Rapcsak, S.Z. (2008, February). Lexical-semantic and sublexical influences on reading and spelling in acquired alexia and agraphia. Poster presentation at the annual meeting of the International Neuropsychological Society, Hawaii.
- Rapcsak, S.Z., Beeson, P.M., Henry, M.L., Rising, K., Kim, E.S., & Cho, H. (2008, February). Cognitive mechanisms of phonological dyslexia and dysgraphia. Poster presentation at the annual meeting of the International Neuropsychological Society, Hawaii.
- Rapcsak, S.Z., Beeson, P.M., Henry, M.L., Kim, E.S., & Rising, K. (2008, February). Are dissociations between reading and spelling common in individuals with acquired alexia and agraphia? Poster presentation at the annual meeting of the International Neuropsychological Society, Hawaii.
- Henry, M.L., Rapcsak, S.Z. & Beeson, P.M. (2008, February). The evolution of reading and spelling impairments in progressive aphasia. Poster presentation at the annual meeting of the International Neuropsychological Society, HA.
- Beeson, P.M. & Robey, R.R. (2008, May). Meta-analyses of aphasia treatment outcomes: Examining the evidence. Invited platform presentation at the Annual Clinical Aphasiology Conference, Jackson Hole, Wyoming.
- Beeson, P.M., Rising, K., Kim, E.S. & Rapcsak, S.Z. (2008, May). A treatment sequence for phonological alexia/agraphia. Platform presentation at the Annual Clinical Aphasiology Conference, Jackson Hole, Wyoming.
- Henry, M.L., Beeson, P.M., Caselli, R. & Rapcsak, S.Z. (2008, May). Reading and spelling impairments in progressive aphasia: Evolving behavioral deficits and neural substrates. Poster presentation at the Annual Clinical Aphasiology Conference, Jackson Hole, Wyoming.
- Cho, H., Beeson, P.M. & Rapcsak, S.Z. (2008). Do reading and spelling share the same orthographic lexicon? Poster presentation at the Annual Clinical Aphasiology Conference, Jackson Hole, Wyoming.
- Kim, E.S., Beeson, P.M. & Rapcsak, S.Z. (2008, May). Implications of treatment failure for interpreting the cognitive mechanisms underlying acquired alexia. Poster presentation at the Annual Clinical Aphasiology Conference, Jackson Hole, Wyoming.
- Beeson, P.M., Rising, K., Kim, E.S. & Rapcsak, S.Z. (2008, November). A treatment continuum for acquired agraphia. Presentation at the annual convention of the American Speech-Language-Hearing Association.
- Kim, E.S., Rising, K. & Beeson, P.M. (2008, November). Acquired alexia: Understanding the nature and treatment of letter-by-letter reading. Presentation at the annual convention of the American Speech-Language-Hearing Association.
- Cho, H., Beeson, P.M., & Rapcsak, S.Z. (2008, November). Reading and spelling: Do they share the same orthographic lexicon? Presentation at the annual convention of the American Speech-Language-Hearing Association.
- Beeson, P.M., Rising, K., Kim, E.S. & Rapcsak, S.Z. (2009, May). Examining a treatment continuum for acquired impairments of reading and spelling. Platform presentation at the Annual Clinical Aphasiology Conference, Keystone, Colorado.

- Henry, M.L., Beeson, P.M., & Rapcsak, S.Z. (2009, May). Cognitive and neural correlates of written language impairment in progressive aphasia. Poster presentation at the Annual Clinical Aphasiology Conference, Keystone, Colorado.
- Rapcsak, S.Z., Henry, M. L., Beeson, P.M., Woodruff, B.K. & Caselli, R. J. (2009, May). Cognitive and neural correlates of written language impairment in progressive aphasia. Poster presentation at the 61<sup>st</sup> Annual Meeting of the American Academy of Neurology, Seattle, WA.
- Rapcsak, S.Z., Kim, E.S., Henry, M. L., Andersen, S. M., Beeson, P.M. (2009, May). The contributions of the visual word form area to skilled reading. Poster presentation at the 61<sup>st</sup> Annual Meeting of the American Academy of Neurology, Seattle, WA.
- Andersen, S., Rapcsak, S.Z., & Beeson, P.M. Cost function masking during normalization of brains with focal lesions: Still a necessity? (2009, October). Poster presentation at The Neurobiology of Language Conference, Chicago, IL.
- Bonakdarpour, B., Cho, H., Henry, M.L., King, R., Rapcsak, S.Z., & Beeson, P.M. (2009, October). Neural mechanisms underlying treatment-related improvement in logopenic primary progressive aphasia: an fMRI case study. Poster presentation at The Neurobiology of Language Conference, Chicago, IL.
- Cho, H., Rapcsak, S.Z., Beeson, P.M. (2009, October). Evidence for a common neural substrate of orthographic processing for reading and spelling. Poster presentation at The Neurobiology of Language Conference, Chicago, IL.
- Henry, M., Beeson, P.M., & Rapcsak, S.Z. (2009, October). Written language impairments in progressive aphasia: A reflection of damage to core semantic and phonological processes. Poster presentation at Neurobiology of Language Conference, Chicago, IL.
- Andersen, S., Rapcsak, S.Z., & Beeson, P.M. (2009, October). Cost function masking during normalization of brains with focal lesions: Still a necessity? Poster presentation at Advanced Research Institute for Biomedical Imaging Workshop, Tucson, AZ.
- Bonakdarpour, B., Cho, H., Henry, M.L., King, R., Rapcsak, S.Z., & Beeson, P.M. (2009, October). Neural mechanisms underlying treatment-related improvement in logopenic primary progressive aphasia: an fMRI case study. Poster presentation at Advanced Research Institute for Biomedical Imaging Workshop, Tucson, AZ.
- Cho, H., Rapcsak, S.Z., Beeson, P.M. (2009, October). Evidence for a common neural substrate of orthographic processing for reading and spelling. Poster presentation at Advanced Research Institute for Biomedical Imaging Workshop, Tucson, AZ.
- Volk, R., Beeson, P.M., Henry, M.L., Kim, E.S., Rising, K., & Rapcsak, S.Z. (2009, November). Influences of lexical and sublexical factors in acquired alexia/agraphia. Poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
- King, R. M., Beeson, P.M., Henry, M.L., & Rapcsak, S.Z. (2009, November). Effects of semantically based lexical retrieval treatment in progressive aphasia. (2009, November) Poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
- Rapcsak, S.Z., Kim, E.S., Cho, H., Andersen, S.M., Henry, M.L., & Beeson, P.M. (2010, April). Shared neural substrates of reading and spelling in left fusiform gyrus: Converging evidence from lesion-deficit and functional imaging studies. Platform presentation at the 62<sup>nd</sup> Annual Meeting of the American Academy of Neurology, Toronto, CA.

- Cho, H., Rapcsak, S.Z., & Beeson, P.M. (2010, May). Neural substrates of orthographic processing: Are they specific to written language? Poster presented at Clinical Aphasiology Conference, South Carolina.
- Beeson, P.M., Rising, K., Henry, M.L., Kim, E.S., & O'Bryan, E. (2010, May). A framework for treatment planning in aphasia. Poster presentation at the 2010 Annual Clinical Aphasiology Conference, Isle of Palms, South Carolina.
- Kim, E., Rising, K., Rapcsak, S. & Beeson, P. (2010, May). MOR Evidence for the therapeutic value of multiple oral re-reading. Poster presentation at the 2010 Annual Clinical Aphasiology Conference, Isle of Palms, South Carolina.
- Kim, E., Beeson, P., Andersen, S., & Rapcsak, S. (2010, June). Kinesthetic treatment for letter naming impairment in acquired alexia: Lessons from a treatment failure. Poster presentation at the 2010 International Aphasia Rehabilitation Conference, Montreal, Quebec.
- Beeson, P.M. & Rising, K. (2010, November). Understanding & treating acquired impairments of written language: An update. Platform presentation at the Annual Convention of the American Speech-Language-Hearing Association, Philadelphia, PA.
- Beeson, P.M., Rising, K., Kim, E.S., Andersen, S., & Rapcsak, S.Z. (2011, April). A treatment continuum for severe acquired agraphia. Poster presentation at the 63<sup>rd</sup> Annual Meeting of the American Academy of Neurology, Honolulu, HA.
- Henry, ML, Gorno-Tempini, ML, Beeson, PM; Wilson, SM, Andersen, SM, Ogar, JM, Miller, BL, Rapcsak, SZ (2011, April). Neuropsychological mechanisms of surface dyslexia in semantic dementia. Poster presentation at the 63<sup>rd</sup> Annual Meeting of the American Academy of Neurology. Honolulu, HA.
- Beeson, P.M. & Rising, K. (2011, May). Lexical retrieval treatment for primary progressive aphasia. Platform presentation at the Annual Clinical Aphasiology Conference. Key West, FL.
- Wilson S.M., Beeson PM, Rising K, Andersen SM, Stib M, Gendreau A, Rapcsak SZ. Dysfunctional visual word form area in a case of progressive alexia [Poster]. (2011, November). *3rd Annual Neurobiology of Language Conference*, Annapolis, MD.
- Beeson, P.M. & Rising, K. (2011, November). Understanding & treating acquired impairments of written language: 2011 update. Platform presentation at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA.

### **Invited Professional Lectures and Workshops (since 2006)**

- Beeson, P.M. (2006, February). *Assessment and treatment of naming disorders in aphasia. Assessment and treatment of acquired impairments of written language*. Invited short courses at the 2006 Illinois Speech-Language-Hearing Association Convention. Chicago, IL.
- Beeson, P.M. (2006, February). *Assessment and treatment of naming disorders in aphasia. Assessment and treatment of acquired impairments of written language*. Invited short courses at the 2006 Kentucky Convention on Communication Disorders, Louisville, KY.
- Beeson, P.M. (2006, March). *Treatment approaches for aphasia, alexia, and agraphia*. Invited workshop at the National Rehabilitation Hospital, Washington, DC.
- Beeson, P.M. (2006, June). *Aphasia treatment outcomes: Examining the evidence*. Invited Keynote Presentation at the International Aphasia Rehabilitation Conference, Sheffield, England.

- Beeson, P.M. (2006, November). *Aphasia treatment: Examining the evidence*. Invited presentation at the Braintree Rehabilitation Conference, Boston, MA.
- Beeson, P.M. (2007, May). *The nature and treatment of aphasia, alexia, and agraphia: From science to clinical practice*. Invited two-day workshop at the Rehabilitation Institute of Chicago, Chicago, ILL.
- Beeson, P.M. (2008, March). *The nature and treatment of written language impairment*. Invited presentation at Neurorehabilitation Grand Rounds, Department of Neurology, Washington University, St. Louis, MO.
- Beeson, P.M. (2008, June). *Understanding progressive aphasia*. Invited speaker at the Speaking Out Conference for the National Aphasia Association, New York City, NY.
- Beeson, P.M. (2010, April). *Evidence-based treatment approaches for aphasia, alexia, and agraphia*. Invited full-day workshop at the Minnesota Speech-Language-Hearing Association Spring Convention.
- Beeson, P.M. (2010, October). *Maximizing communication with individuals with progressive aphasia*. Invited speaker at the 7<sup>th</sup> International Conference on Frontotemporal Dementias, Indianapolis, IN.
- Beeson, P.M. (2011, April). *An update on treatment approaches for aphasia, alexia, and agraphia*. Invited workshop at the Annual Convention of the New Jersey Speech-Language-Hearing Association, Oceanview, New Jersey.
- Beeson, P.M. (2011, June). *Aphasia rehabilitation: An update for the practicing clinician*. Invited workshop at the Rehabilitation Institute of Chicago, Chicago, ILL.
- Beeson, P.M. (2012, March). *Aphasia workshop 2012: An update in treatments for aphasia, alexia, and agraphia*. Professional workshop at the University of Arizona, Tucson, AZ.
- Beeson, P.M. (2012, April). How to maximize recovery in aphasia. Invited lecture for the Institute for Human Adjustment, The University of Michigan, Ann Arbor, MI.

## GRANTS

### *Current Projects*

- Principal Investigator: Beeson, P.M. Developing an Evidence-Based Treatment Continuum for Spoken and Written Language. 2R01DC007646-06A1 Grant from NIH/NIDCD (2011-2016).
- Mentor to Gayle DeDe. NIH/K 23 DC010808-01A1 Sentence comprehension impairments in aphasia. (2011-2016)

### *Completed Projects*

- Co-Principal Investigator: Beeson, P.M. & Glatke, T.J. American Indian Professional Training Program in Speech-Language Pathology & Audiology: A Professional Degree Training Program. Grant G008535046 from the Division of Personnel Preparation, United States Department of Education (1985-88) 100% effort.
- Co-Investigator: Comparative Studies of naming impairments in individuals with aphasia and Alzheimer's disease. National Multipurpose Research and Training Grant DC-01409 from the National Institute on Deafness and Other Communication Disorders (1991-1996). 100% effort.

Co-Investigator: Stimulating cognitive processes in the treatment of aphasia. National Multipurpose Research and Training Grant from the National Institute on Deafness and Other Communication Disorders (1996-2001). 100% effort.

Principal Investigator: Beeson, P.M. Exploring the neural substrates of writing rehabilitation using functional magnetic resonance imaging. Small Grant from Office of Vice President for Research at the University of Arizona (1999).

Principal Investigator: Beeson, P.M. The neural substrates for phonological versus lexical spelling procedures. Grant from Cognition and Neuroimaging Laboratories, Arizona Alzheimer's Research Center, Department of Human Services, State of Arizona. (2001-2002).

Principal Investigator: Beeson, P.M. Application of Functional Magnetic Resonance Imaging to the Study of Writing. Small Grants Program in Imaging and Imaging Science, The University of Arizona, State of Arizona. (2002-2003).

Co-Principal Investigator: Rapesak, S.Z. & Beeson, P.M. Semantic memory in mild cognitive impairment. Grant from Arizona Alzheimer's Disease Core Center. (2004-2005).

Principal Investigator: Beeson, P.M. Neuroplasticity in chronic and progressive aphasia. Grant from Arizona Alzheimer's Disease Core Center. (2005-2006).

Principal Investigator: Beeson, P.M. Developing Evidence-Based Treatments for Agraphia. RO1 DC007646 Grant from NIH/NIDCD (2005-2010).

Mentor to Maya Henry. NIH/NRSA F31 Language behavior and patterns of cortical atrophy in primary progressive aphasia. F31 DC009145 (2007-2009).

Co-Principal Investigator: Cognitive mechanisms and neural substrates of written language processing. RO1 DC008286 NIH/NIDCD (2006-2009).

## RECENT PROFESSIONAL SERVICE

### Local Contributions

- |           |   |
|-----------|---|
| 2006-2007 | Faculty Representative, Meet Your Major Day, University of Arizona (Fall 2006)<br>Faculty Representative, Senior Day, Undergraduate Student Recruitment, College of Science, University of Arizona<br>Consultant without compensation, Speech Pathology Section, Tucson Veteran's Affairs Medical Center<br>State Representative for the National Aphasia Association |
| 2007-2008 | Consultant without compensation, Speech Pathology Section, Tucson Veteran's Affairs Medical Center<br>State Representative for the National Aphasia Association   |
| 2008-2009 | Board Member, Pima Council on Aging, Tucson, AZ<br>Public Relations Committee Member, Pima Council on Aging<br>State Representative for the National Aphasia Association<br>Invited Speaker: University of Arizona Honor's Lunch Forum. <i>How the brain supports language</i> (Feb. 11, 2009).   |
| 2009-2010 | Board Member, Pima Council on Aging, Tucson, AZ<br>Public Relations Committee Member, Pima Council on Aging<br>State Representative for the National Aphasia Association<br>Invited Speaker, Radiology Research Conference, University of Arizona Medical   |

- Center. *The role of neuroimaging in the study of written language.*  
2010-2011 Board Member, Pima Council on Aging, Tucson, AZ  
Public Relations Committee Member, Pima Council on Aging  
State Representative for the National Aphasia Association

### **Departmental and University Service (since 2006)**

- 2006-2007 Chair, Master's Admissions Committee, Dept. of Speech and Hearing Sciences  
Member, Department Advisory Committee, Dept. of Speech and Hearing Sciences  
College of Science, Graduate Committee  
College of Science Undergraduate Recruitment Committee
- 2008- 2009 Elected Member, Department Advisory Committee, Dept. of Speech, Language, & Hearing Sciences  
Member, University of Arizona ADVANCE Leadership Workgroup 1  
Member, Graduate Admissions and Policy Committee, Department of Speech, Language, Hearing Sciences, University of Arizona  
Chair, Ad Hoc Search Committee for Senior Lecturer Positions, Department of Speech, Language, Hearing Sciences, University of Arizona
- 2009-2010 Elected Member, Department Advisory Committee, Dept. of Speech, Language, & Hearing Sciences  
Member, University of Arizona ADVANCE Leadership Workgroup 1  
Member, Graduate Admissions and Policy Committee, Department of Speech, Language, Hearing Sciences, University of Arizona  
Chair, Ad Hoc Search Committee for Assistant Professor in Language and Neuroimaging, Department of Speech, Language, Hearing Sciences, University of Arizona.  
Chair, Ad Hoc Search Committee for Assistant/Associate Professor in Child Language, Department of Speech, Language, Hearing Sciences, University of Arizona
- 2010-2011 Elected Member, Department Advisory Committee, Dept. of Speech, Language, & Hearing Sciences  
Member, University of Arizona ADVANCE Leadership Workgroup 1  
Member, Graduate Admissions and Policy Committee, Department of Speech, Language, Hearing Sciences, University of Arizona
- 2011-2012 Department Head, Speech, Language, and Hearing Science  
Member, Steering Committee, School of Mind, Brain, and Behavior

### **National/International Outreach and Service**

- 2004-2007 Ad Hoc Reviewer, Language and Communication Study Section, National Institutes of Health
- 2005-2007 Ad Hoc Reviewer, National Institutes of Health

- 2007-2011 Panel Member, Language and Communication Study Section, National of Health  
2008 Member, Program Committee, Discipline-Wide Research for the 2008 American  
Speech-Language-Hearing Association Convention  
2009 Member, Program Committee, Adult Language Committee for the 2009  
American Speech-Language-Hearing Association Convention  
2010 Reviewer, VA Merit Grant Program  
2011 Ad Hoc Reviewer, National Institutes of Health, Program Project Review  
(September, 2011).

### ***Publications Committees and Editorial Service***

- 2003 Associate Editor, *Aphasiology*, Special Volume on Writing and Agraphia.

### ***Journal Reviewer***

*American Journal of Speech-Language Pathology*  
*Aphasiology: An International, Interdisciplinary Journal*  
*Brain and Language*  
*Behavioral Neurology*  
*Cerebral Cortex*  
*Cognitive and Behavioral Neurology*  
*Cognitive Neuropsychological Rehabilitation*  
*Cortex*  
*Journal of Clinical and Experimental Neuropsychology*  
*Journal of Cognitive Neuroscience*  
*Journal of Communication Disorders*  
*Journal of Speech, Language, Hearing Research*  
*Journal of the International Neuropsychological Society*  
*Journal of Rehabilitation Research, VAMC*  
*Neuropsychologia*  
*Neuropsychological Rehabilitation*  
*Stroke*

### ***National Leadership***

- 1995-99 Member, Steering Committee for ASHA Special Interest Division 2:  
Neurophysiology and Neurogenic Communication Disorders  
1996-99 Coordinator, ASHA Special Interest Division 2: Neurophysiology and  
Neurogenic Communication Disorders  
1996-99 Member, Board of Division Coordinators, American Speech-Language-Hearing  
Association  
1997-99 Member, Ad Hoc Committee on Inter-professional Relations between ASHA and  
American Psychological Association Division 40 (Neuropsychology)  
1998-99 Member at Large, Executive Board of the Academy of Neurologic  
Communication Disorders and Sciences  
1998 Invited Participant, Future of Speech-Language Pathology Focus Group for  
ASHA Council on Professional Standards (June 1998)



- 1997 Participant and Local Arrangements Chair, National Leadership Conference for Neurogenic Communication Disorders, Tucson, AZ (February 1997)
- 1999 Chair, National Leadership Conference for Neurogenic Communication Disorders, Tucson, AZ (March, 1999)
- 1999-current Chair, Ad Hoc Committee to develop Practice Guidelines for Aphasia, Academy for Neurologic Communication Disorders and Sciences
- 2000-2006 Member, Ad Hoc Committee for Coordination of Practice Guidelines Development, Academy for Neurologic Communication Disorders and Sciences
- 2000-2006 Member, Continuing Education Committee, International Neuropsychological Society