

## **Dr. Richard I. Zraick**

### **Education**

Ph.D.	1998	Speech and Hearing Science, Arizona State University.
M.S.	1987	Speech and Hearing Science, University of Arizona.
B.A.	1984	Psychology, University of Arizona.

### **Current Academic Appointments**

Associate Professor	Department of Audiology and Speech Pathology.
Assistant Professor	Department of Otolaryngology, Head and Neck Surgery.
	University of Arkansas for Medical Sciences (UAMS)
	Little Rock, Arkansas, USA, 72205.

### **Certification and Licensure**

- A. Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP), issued by the American Speech, Language and Hearing Association [ASHA] (1987 to present).
- B. AR License #SP - 1308 issued by the AR Board of Examiners in Speech-Language Pathology and Audiology [ABESPA] (1997 to present).

### **Membership in National and State Professional Organizations**

- A. Member, American Speech, Language and Hearing Association [ASHA] (1987 to present).
- B. Member of ASHA Special Interest Divisions: 10 (Higher Education), 2 (Neurogenic Speech-Language Disorders), 3 (Voice and Voice Disorders), and 5 (Speech Science and Orofacial Disorders).
- C. Member, Academy of Neurological Communication Disorders and Sciences (1998 to present).
- D. Member, American Cleft Palate-Craniofacial Association (1998-2000).
- E. Member, Arkansas Speech, Language and Hearing Association (1997 to present).

- F. Member, Arizona Speech, Language and Hearing Association (1987 to 2000).

### **Awards and Recognition**

- A. Faculty Excellence in Teaching Award, UAMS College of Health Related Professions (2005).
- B. Granted promotion and tenure by the University of Arkansas for Medical Sciences (July 01, 2004).
- C. Faculty Excellence in Research Award, UALR College of Professional Studies (2003).
- D. Annual Contributions in Research Award, Arkansas Speech, Language and Hearing Association (2000).
- E. Awards for Continuing Education (ACE), issued by the American Speech, Language and Hearing Association (1991, 1993, 1996, 1997, 1999, 2000, 2004, 2007).
- F. Nominated twice as Outstanding Teaching Assistant in the College of Liberal Arts at Arizona State University (1993 and 1994).
- G. Alpha Epsilon Delta National Premedical Honor Society (1997).

### **Scholarly Activities**

#### **A. Funded Grant Awards and Contracts:**

1. Zraick, R.I. (2007). Phonatory Airflow System (PAS) Normative Study. Contract amount = \$13,000. Agency: KayPentax Corp., Lincoln Park, NJ.
2. Zraick, R.I. (2006). The CAPE-V Validation Study. Contract amount = \$3000. Agency: American Speech-Language-Hearing Association.
3. Zraick, R.I. & Gregg, B.A. (2005). An Investigation of the Speech and Voice of Persons with Alzheimer's Disease. Direct costs = \$7500. Granting Agency: UAMS Memory Research Center (funded through grant P30 AG 19606 from the National Institute on Aging).

4. Zraick, R.I. (2003). Using Standardized Alzheimer's Disease Patients to Teach Administration of the Mini-Mental State Exam by Speech-Language Pathology Graduate Students. Direct Costs = \$2150. Granting Agency: Arkansas Geriatric Education Center (funded through HRSA grant # 1 D31 HP 80009 01).
5. Zraick, R.I. (2002). Clinical Training of Allied Health Professions Students Using Standardized Alzheimer's Disease Patients and Families. Direct Costs = \$8,974. Granting Agency: Arkansas Geriatric Education Center (funded through HRSA grant # 1 D31 HP 80009 01).
6. Zraick, R.I. (2001). The Use of Standardized Alzheimer's Disease Patients and Families to Teach and Test Clinical Management by Speech-Language Pathology Graduate Students. Direct Costs = \$13,702. Granting Agency: The UAMS Alzheimer's Disease Center (funded through grant P30 AG 19606 from the National Institute on Aging).
7. Zraick, R.I. (2001). The Use of Standardized Patients to Teach Clinical Interviewing Skills to Health Related Professions Students. Direct costs = \$2400. Granting Agency: Arkansas Geriatric Education Center (funded through HRSA grant # 1 D31 HP 80009 01).
8. Zraick, R.I. & Hutton, T. (2000). The Use of Standardized Patient Videotaped Interactions to Teach Principles of Clinical Management. Direct costs = \$1650. Granting Agency: UALR Chancellor's Office.
9. Zraick, R.I. (1999). The Use of Standardized Aphasic Patients to Teach and Assess Clinical Skills of Speech-Language Pathology Graduate Students. Direct costs = \$5000. Granting Agency: The American Speech-Language-Hearing Foundation (New Investigator Award).

**B. Grant Proposals Not Funded:**

1. Zraick, R.I. & Gregg, B.A. (2007). The Effect of Divided Attention on Speech Fluency of Adults with Normal Speech. Direct costs = \$150,000. An R03 revised proposal submitted to the NIH, National Institute of Deafness and Other Communication Disorders (NIDCD) (1 R03 DC007999-01). Not scored.
2. Zraick, R.I. & Gregg, B.A. (2005). The Effect of Divided Attention on Speech Fluency of Adults with Normal Speech. Direct costs = \$150,000. An R03 proposal submitted to the NIH, National Institute of Deafness and Other Communication Disorders (NIDCD) (1 R03 DC007999-01). Not scored.

3. Zraick, R.I. (2003). Using Standardized Alzheimer's Disease Patients to Teach Administration of the Mini-Mental State Exam by Speech-Language Pathology Graduate Students. Direct Costs = \$11,659. Granting Agency: The UAMS Alzheimer's Disease Center.
4. Zraick, R.I. (2000). Teaching and Assessing Clinical Skills of Speech-Language Pathology Graduate Students Using Standardized Patients. Direct Costs = \$4597. Granting Agency: Association of Schools of Allied Health Professions.
5. Zraick, R.I. (1999). The Use of Standardized Aphasic Patients to Teach and Assess Clinical Skills of Speech-Language Pathology Graduate Students. Direct costs = \$5855. Granting Agency: The UAMS Foundation, Medical Research Endowment Fund.
6. Zraick, R.I. (1998). The Use of Standardized Patients to Teach and Assess Clinical Skills of Speech-Language Pathology Graduate Students Working With Geriatric Patients. Direct costs = \$4795. Granting Agency: UAMS Donald W. Reynolds Center on Aging.
7. Zraick, R.I. (1998). The Validity of Confirmation of Tracheoesophageal Voice Prosthesis Placement. Direct Costs = \$14,782. Granting Agency: American Cancer Society Institutional Research Grant.

**C. Refereed Scientific Journal Articles In Print or Press:**

1. Rosen, C., Gartner-Schmidt, J., Casiano, R., Anderson, T.D., Johnson, F.L., Remacle, M., Sataloff, R., Abitbol, J., Shaw, G., Archer, S. & Zraick, R.I. (2009). Vocal fold augmentation with Calcium Hydroxylapatite (CaHA): Twelve month report. Laryngoscope, 119, 1033-1041.
2. Zraick, R.I. & Risner, B.Y. (2008). Assessment of quality of life in persons with voice disorders. Current Opinion in Otolaryngology & Head and Neck Surgery, 16, 188–193.
3. Morgan, J., Zraick, R.I., Walker, A., Bowen, T. & Johnson, F. (2007). Injection vs. medialization laryngoplasty for the treatment of unilateral vocal fold paralysis. Laryngoscope, 117, 2068-2074.
4. Zraick, R.I., Risner, B.Y., Smith-Olinde, L., Gregg, B.A., Johnson, F.L., & McWeeny, E.K. (2007). Patient versus partner perception of voice handicap. Journal of Voice, 21 (4), 485-494.

5. Zraick, R.I., Gregg, B.A., & Whitehouse, E.L. (2006). Speech and voice characteristics of geriatric speakers: A review of the literature and a call for research and training. Journal of Medical Speech-Language Pathology, 14 (3), 133-142.
6. Zraick, R.I., Gentry, M.A., Smith-Olinde, L., & Gregg, B.A. (2006). The effect of speaking context on determination of habitual pitch. Journal of Voice, 20 (4), 545-554.
7. Zraick, R.I., Wendel, K.W., & Smith-Olinde, L. (2005). The effect of speaking task on perceptual judgment of the severity of dysphonic voice. Journal of Voice, 19 (4), 574-581.
8. Zraick, R.I., Birdwell, K.Y., & Smith-Olinde, L.K. (2005). The effect of speaking sample duration on determination of habitual pitch. Journal of Voice, 19 (2), 197-201.
9. Zraick, R.I., Marshall, W.C., Smith-Olinde, L., & Montague, J.C. (2004). The effect of speaking task on determination of habitual loudness. Journal of Voice, 18 (2), 176-182.
10. Zraick, R.I., Davenport, D.J., Tabbal, S.D., Hicks, G.S., Hutton, T.J., & Patterson, J. (2004). Reliability of speech intelligibility ratings using the Unified Huntington's Disease Rating Scale. Journal of Medical Speech-Language Pathology, 12 (1), 31-40.
11. Zraick, R.I., Dennie, T.M., Tabbal, S.D., Hutton, T.J., Hicks, G.S., & O'Sullivan, P. (2003). Reliability of speech intelligibility ratings using the Unified Parkinson's Disease Rating Scale. Journal of Medical Speech-Language Pathology, 11 (4), 227-240.
12. Zraick, R.I., Allen, R.M. & Johnson, S.B. (2003). The use of standardized patients to teach and test interpersonal and communication skills with students in Speech-Language Pathology. Advances in Health Sciences Education, 8, 237-248.
13. Zraick, R.I. (2002). The use of standardized patients in Speech-Language Pathology. American Speech-Language Hearing Association Perspectives on Issues in Higher Education, 5 (1), 14-16.

14. Zraick, R.I., Keyes, M., Montague, J. & Keiser, J. (2002). Mid-basal-to-ceiling versus mid-ceiling-to-basal elicitation of maximum phonational frequency range. Journal of Voice, 16 (3), 317-322.
15. Zraick, R.I. & Allen, R.M. (2002). Using standardized patients to train and test Speech-Language Pathology students. The Innovative Professor in Communication Disorders: The American Speech-Language Hearing Association Perspectives on Issues in Higher Education, 1, 17-19.
16. Zraick, R.I. & Skaggs, S.D., & Montague, J.C. (2000). The effect of task on determination of habitual pitch. Journal of Voice, 14 (4), 484-489.
17. Zraick, R.I., Liss, J.M., Dorman, M.F., Case, J.L., LaPointe, L.L., & Beals, S.P. (2000). Multidimensional scaling of nasal voice quality. Journal of Speech and Hearing Research, 43 (4), 989-996.
18. Zraick, R.I. & Liss, J.M. (2000). A comparison of equal-appearing interval scaling and direct magnitude estimation of nasal voice quality. Journal of Speech and Hearing Research, 43 (4), 979-988.
19. Zraick, R.I., Nelson, J.C., Montague, J.C., & Monoson, P.K. (2000). The effect of task on determination of maximum phonational frequency range. Journal of Voice, 14 (2), 154-160.
20. Zraick, R.I., LaPointe, L.L., Case, J.L. & Duane, D.D. (1993). Acoustic correlates of vocal quality in individuals with spasmodic torticollis. Journal of Medical Speech-Language Pathology, 4, 261-270.
21. Zraick, R.I. & Boone, D.R. (1991). Spouse attitudes toward the person with aphasia. Journal of Speech and Hearing Research, 34, 123-128.

**D. Textbooks in Print:**

1. Boone, D.R., McFarlane, S.C., Von Berg, S.L. & Zraick, R.I. (2009). The Voice and Voice Therapy (8<sup>th</sup> edition). New York: Allyn and Bacon.

**E. Book Chapters in Print or Press:**

1. Zraick, R.I. (In press, 2009). Voice Use Reduction for the Treatment of Chronic Dysphonia. In J.C Stemple & L.B. Thomas (Eds.), Voice Therapy: Clinical Studies (3rd ed.). San Diego, CA: Plural Publishing.

2. Jacobson, B.H. & Zraick, R.I. (In press, 2009). Voice-related Quality of Life in Persons with Dysphonia. In E. Ma & E. Yiu (Eds.), Handbook of Voice Assessments. San Diego, CA: Plural Publishing.
3. Zraick, R.I. & LaPointe, L.L. (2008). Hyperkinetic Dysarthria. In M.R. McNeil (Ed.), Clinical Management of Sensorimotor Speech Disorders (2<sup>nd</sup> edition) (pp. 152-165). New York: Thieme Medical Publishers.
4. Zraick, R.I. (2008). Pick's Disease. In M.R. McNeil (Ed.), Clinical Management of Sensorimotor Speech Disorders (2<sup>nd</sup> edition) (pp. 369-370). New York: Thieme Medical Publishers.
5. Matthews, C., & Zraick, R.I. (2008). Wilson's Disease. In M.R. McNeil (Ed.), Clinical Management of Sensorimotor Speech Disorders (2<sup>nd</sup> edition) (pp. 404-406). New York: Thieme Medical Publishers.
6. Zraick, R.I. & LaPointe, L.L. (1997). Hyperkinetic Dysarthria. In M.R. McNeil (Ed.), Clinical Management of Sensorimotor Speech Disorders (pp. 249-260). New York: Thieme Medical Publishers.

#### **F. Non-Refereed Professional Publications in Print:**

1. Zraick, R.I. (2008). Commentary on Lewis et al.: Use of simulated patients in development of physiotherapy students' interpersonal skills. International Journal of Therapy and Rehabilitation, 15 (5), 221-229.
2. Zraick, R.I. (2004). Playacting with a purpose: Using standardized patients to assess clinical skills. The ASHA Leader, p. 22.
3. Katz, R.C., Zraick, R.I., & Horner, J. (2003). Research evidence, practice guidelines, and ethics. ANCDS Newsletter, 1 (2), 2.
4. Zraick, R.I. (2002). The Voice Diagnostic Protocol (S. Awan), Aspen Publications, 2001. Book review for Topics in Language Disorders, 22 (2), 85-86.
5. Zraick, R.I. (1999). Clinical Corner: Voice Facilitating Techniques. Quarterly Newsletter of the Arkansas Speech and Hearing Association, 37, 11.
6. Zraick, R.I. (1998). Perceptual scaling of synthesized nasal vowels. Dissertation Abstracts International: Section B: the Sciences & Engineering, 59(1-B), 191. University Microfilms International.

7. Zraick, R.I. (1997). The Positive Role of Mentoring (Guest Editorial). ASHA, 39 (3), 10.

**G. Refereed Scientific Journal Articles Under Review or Revision:**

1. Zraick, R.I., Shotts, L., Smith-Olinde, L.S., & Jones, J. (2009). Adult normative data for the KayPentax Phonatory Aerodynamic System. Journal of Voice.
2. Zraick, R.I., Kempster, G.B., Connor, N.P, Thibault, S., Klaben, B.K., Bursac, Z., Thrush, C.R., & Glaze, L.E. (2009). Establishing validity of the Consensus Auditory Perceptual Evaluation of Voice. American Journal of Speech-Language Pathology.
3. Vinson, K.N., Zraick, R.I., & Ragland, F.J. (2009). Injection versus medialization laryngoplasty for the treatment of unilateral vocal fold paralysis: follow-up at six months. Laryngoscope.

**H. Refereed National Scientific Conference Presentations:**

1. Zraick, R.I., Pickett, H., Guyette, T.W., Gregg, B.A., & McWeeny, E. (Forthcoming, November 2009). Voice Use Reduction as a Treatment for Chronic Dysphonia: A Case Study. Poster at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
2. Zraick, R.I., Beatty, J.B., Robinson, G.C., & McWeeny, E. (Forthcoming, November 2009). Development of a Communication-Related Quality of Life Scale for Laryngectomees. Technical Paper at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
3. Zraick, R.I., Shotts, L., & Jones, J. (Forthcoming, November 2009). KayPENTAX Phonatory Aerodynamic System (PAS) Adult Normative Data. Technical Paper at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
4. Gregg, B.A., Lyle, C.S., Zraick, R.I., & Smith-Olinde, L.S. (Forthcoming, November 2009). Stuttering-Like Dysfluencies in the Speech of Patients with Parkinson's Disease. Poster at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.

5. Zraick, R.I., Pickett, H., Guyette, T.W., Gregg, B.A., & McWeeny, E. (June 2009). Voice Use Reduction as a Treatment for Chronic Dysphonia: A Case Study. Poster at the Voice Foundation's 38th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
6. Vinson, K., Zraick, R.I., & Johnson, F.L. (May 2009). Injection vs. Medialization Laryngoplasty for the Treatment of Unilateral Vocal Fold Paralysis: Follow-up at Six Months. Poster at the 112<sup>th</sup> Annual Combined Otolaryngology Spring Meetings (COSM), Phoenix, AZ.
7. Zraick, R.I. & Jacobson, B.H. (November, 2008). Quality of Life in Persons with Voice Disorders. Seminar at the Annual Convention of the American Speech-Language-Hearing Association, Chicago, IL.
8. Zraick, R.I., Klaben, B., Connor, N., Thiebault, S., Kempster, G., Glaze, L., Thrush, C., & Bursac, Z. (November, 2007). Results of The CAPE-V Validation Study. Seminar at the Annual Convention of the American Speech-Language-Hearing Association, Boston, MA.
9. Boone, D.R. & Zraick, R.I. (October, 2007). Selection and Use of Auditory Feedback in Voice Therapy. Seminar at the XVI Annual Pacific Voice/UCLA Voice Conference, Los Angeles, CA.
10. Kempster, G., Shrivastav, R. & Zraick, R.I. (November 2006). Now Hear This: Perceptual Evaluation of Voice. Invited short course (SID 3) at the Annual Convention of the American Speech-Language-Hearing Association, Miami Beach, FL.
11. Zraick, R.I. & Gregg, B.A. (November 2006). The Effect of Divided Attention on Speech Fluency of Persons with Alzheimer's Disease. Poster at the Annual Convention of the American Speech-Language-Hearing Association, Miami Beach, FL.
12. Zraick, R.I., Risner, B.Y., Gregg, B.A., Johnson, F.L. & McWeeny, E. (November 2006). Patient Versus Partner Perception of Voice Handicap. Poster at the Annual Convention of the American Speech-Language-Hearing Association, Miami Beach, FL.

13. Morgan, J.E., Zraick, R.I., Griffin, A.W., Bowen, T.L., & Johnson, F.L. (May 2006). Injection vs. Medialization Laryngoplasty for the Treatment of Unilateral Vocal Fold Paralysis. Poster at the 109<sup>th</sup> Annual Combined Otolaryngology Spring Meetings (COSM), Chicago, IL.
14. Zraick, R.I. (November, 2002). Using Standardized Alzheimer's Disease Patients for Clinical Teaching and Testing. Technical paper at the Annual Convention of the American Speech-Language-Hearing Association, Atlanta, GA.
15. Zraick, R.I., & Liss, J.M., (November, 2002). Individual Differences in the Perception of Nasality. Poster at the Annual Convention of the American Speech-Language-Hearing Association, Atlanta, GA.
16. Zraick, R.I., Blake, S., Jones, L., Monoson, P.K., Hicks, G., Harmon, A., & O'Sullivan, P. (November, 2002). Reliability of Ratings of Tracheoesophageal Speech. Poster at the Annual Convention of American Speech-Language-Hearing Association, Atlanta, GA.
17. Zraick, R.I., Dennie, T.M., Tabbal, S.D., Hutton, T.J., Hicks, G.S. & O'Sullivan, P. (November, 2002). Speech Ratings Using the Unified Parkinson's Disease Rating Scale. Poster at the Annual Convention of the American Speech-Language-Hearing Association, Atlanta, GA.
18. Zraick, R.I. (October, 2002). Using Standardized Alzheimer's Disease Patients and Families to Improve Clinical Management by Speech-Language Pathology Graduate Students. Poster at the Annual Alzheimer's Disease Core Centers Fall Symposium, New York, NY.
19. Zraick, R.I., Sikes, L.L., Hutton, T.J., & Davis, P.N. (March, 2002). The Effect of Visual Input on the Differential Diagnosis of Dysarthria Subtypes. Poster at the Eleventh Biennial Conference on Motor Speech Disorders, Williamsburg, VA.
20. Zraick, R.I. & Hutton, T.J. (November, 2001). Using Standardized Patients for Teaching Clinical Management to Undergraduate Students. Technical paper at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
21. Zraick, R.I. (November, 2000). The Use of Standardized Patients to Teach and Assess Clinical Skills of Speech-Language Pathology Graduate Students. Technical paper at the Annual Convention of the American Speech-Language-Hearing Association, Washington, D.C.

22. Zraick, R.I. (1999, April). Perception of Nasal Voice Quality. Technical paper at the Annual Meeting of the American Cleft Palate-Craniofacial Association, Scottsdale, AZ.
23. Zraick, R.I., Liss, J.M., Dorman, M. F., Case, J.L., LaPointe, L.L., & Beals, S. P. (November, 1998). Perception of Nasal Voice Quality. Technical paper at the Annual Convention of the American Speech-Language-Hearing Association, San Antonio, TX.
24. Zraick, R.I. & Mowrer, D.E. (1994, November). A Descriptive Case Study of Sudden Onset Adult Stuttering. Paper presented at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.
25. Zraick, R.I., LaPointe, L.L., Case, J.L., & Duane, D.D. (November, 1993). Acoustic Correlates of Vocal Quality in Individuals with Spasmodic Torticollis. Poster at the Annual Convention of the American Speech-Language-Hearing Association, Anaheim, CA.

#### **I. Refereed Regional Scientific Conference Presentations:**

1. Zraick, R.I. (2006, February). Speech and Voice Characteristics in Geriatric Speakers. Seminar at the 36<sup>th</sup> Annual Mid-South Conference on Communicative Disorders, Memphis, TN.
2. Zraick, R.I. (1999, March). Do You See What I Hear? - Movement Disorders and the Dysarthrias. Seminar at the 29<sup>th</sup> Annual Mid-South Conference on Communicative Disorders, Memphis, TN.
3. Zraick, R.I. & Case, J.L. (1999, March). Assessment of Speech and Voice in Patients with Craniofacial Anomalies. Seminar at the 29<sup>th</sup> Annual Mid-South Conference on Communicative Disorders, Memphis, TN.

#### **J. Refereed State Scientific Conference Presentations:**

1. Zraick, R.I. (October, 2008). Clinical Voice Measurement: Making Sense of the Numbers. Seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
2. Zraick, R.I. (October, 2008). Quality of Life in Persons with Voice Disorders. Seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.

Association, Hot Springs, AR.

3. Zraick, R.I. (May, 2007). Treatment of Voice and Resonance Disorders Across the Lifespan. Seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Scottsdale, Arizona.
4. Zraick, R.I. (October, 2006). Speech and Voice Characteristics in Geriatric Speakers. Seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, Arkansas.
5. Zraick, R.I. (October, 2005). Treatment of Voice Disorders in Adults and Children. Invited seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
6. Zraick, R.I. (October, 2003). Evaluation and Treatment of Communication Deficits in Persons with Alzheimer's Disease. Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
7. Zraick, R.I. (October, 2001). Diagnosis and Treatment of Voice Disorders in Adults. Invited seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
8. Keyes, M., Zraick, R.I., Montague, J. & Keiser, J. (October, 2001). Basal-to-Ceiling versus Ceiling-to-Basal Elicitation of Maximum Phonational Frequency Range. Poster at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
9. Sikes, L., Zraick, R.I., L., Hutton, T., & Davis, P. (October, 2001). Perceptual Discrimination of Dysarthria Subtypes: A Comparison of Two Methods. Poster at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
10. Zraick, R.I., Zoeller, M.F., & Zraick, A.G. (October, 2000). Interdisciplinary Examination of the Orofacial Mechanism. Invited seminar at the Annual Convention of the A Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
11. Zraick, R.I. (October, 1999). Traumatic Brain Injury and Its Effects on Communication. Invited seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.

12. Zraick, R.I., Nelson, J.C., Montague, J.C., & Monoson, P.K. (October, 1999). The Effect of Task on Determination of Maximum Phonational Frequency Range. Poster at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
13. Zraick, R.I. & Case, J.L. (1999, April). Evaluation of Speech and Voice: Patients with Craniofacial Anomalies. Invited seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Mesa, AZ.
14. Zraick, R.I. (1998, October). Patients with Craniofacial Anomalies: Assessment of Speech and Voice. Invited seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
15. Zraick, R.I. (1997, October). Differential Diagnosis of Dysarthria. Invited seminar at the Annual Convention of the Arkansas Speech-Language-Hearing Association, Hot Springs, AR.
16. Zraick, R.I. & Case, J.L. (1996, March). Assessment of Speech and Voice in Patients with Craniofacial Anomalies. Invited seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Tucson, AZ.
17. Zraick, R.I. & Mowrer, D.E. (1995, April). Sudden Onset of Stuttering in an Adult: A Case Study. Paper presented at the Annual Convention of the Arizona Speech-Language-Hearing Association, Phoenix, AZ.
18. Zraick, R.I. (March, 1994). Dysarthria: Differential Diagnosis. Invited seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Phoenix, AZ.
19. Zraick, R.I., Charlesworth, B., Gotsch, L. & Talamante, P. (March, 1992). Does the Treatment Setting affect Outcome: A Comparison of Settings for Treating Persons with a CVA. Poster at the Annual Convention of the Arizona Speech-Language-Hearing Association, Phoenix, AZ.
20. Zraick, R.I. & Boone, D.R. (March, 1991). Spouse Attitudes Toward the Person with Aphasia. Seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Tucson, AZ.
21. Zraick, R.I. (March, 1991). A Profile of the Patients Referred by a Team of Otolaryngologists to A Speech-Language Pathologist. Seminar at the Annual Convention of the Arizona Speech-Language-Hearing Association, Tucson, AZ.

**K. Chaired Scientific Conference Presentations:**

1. Zraick, R.I. (October, 2004). ArkSHA Annual Convention, Hot Springs, AR. Various. Student Research Forum. Moderated half-day session.
2. Zraick, R.I. (October, 2003). ArkSHA Annual Convention, Hot Springs, AR. Various. Student Research Forum. Moderated half-day session.
3. Zraick, R.I. (October, 2002). ArkSHA Annual Convention, Hot Springs, AR. Various. Student Research Forum. Moderated half-day session.
4. Zraick, R.I. (March, 2001). UAMS Reynolds Center on Aging Inaugural Lecture Series. D. Boone. I: Communication in Aging. II: Geriatric Grand Rounds. Arranged for and hosted the visit of this ASHA Honoree.
5. Zraick, R.I. (October, 2001). ArkSHA Annual Convention, Hot Springs, AR. McCullough, G. Swallowing in the Elderly: Maintaining and Improving Function. Chaired half-day session.
6. Zraick, R.I. (October, 2001). ArkSHA Annual Convention, Hot Springs, AR. Collins, K. Memory and Communication in the Elderly: Maintaining and Improving Function. Chaired half-day session.

**Teaching Activities**

**A. Graduate Courses Developed and Taught:**

ASP 5252:	Voice Disorders
ASP 5192:	Neurogenic Speech Disorders
ASP 5093:	Neurogenic Language Disorders
ASP 5073:	Advanced Anatomy and Physiology for Speech
ASP 5262:	Cleft Palate-Craniofacial Speech Disorders
ASP 5352:	Communicating with the Older Adult

**B. Undergraduate Courses Developed and Taught:**

ASP 4363:	Voice and Stuttering
ASP 4361:	Speech and Hearing Mechanism
ASP 2360:	Introduction to Speech and Hearing

**C. Clinical Teaching at UAMS and UALR:**

ASP 505V: Graduate Practicum in Speech and Hearing  
ASP 416V: Undergraduate Practicum in Speech and Hearing

**D. Directed Master's Theses:**

1. O'Neill, A. (Completed Spring 2009). The Ability of Speech-Language Pathology Student-Clinicians to Administer the NIH Stroke Scale.
2. Beatty, J. (Completed Spring 2009). Development of a Communication-Related Quality of Life Scale for Laryngectomees.
3. Pickett, H. (Completed Spring 2007). The Vocal Use Reduction Program.
4. Carr, P. (Completed Spring 2007). Discourse Abilities of Persons with Alzheimer's Disease.
5. Risner, B. (Completed Spring 2006). Patient versus Partner Perception of Voice Handicap.
6. Gentry, M. (Completed Spring 2005). The Effect of Social Speaking Context on Determination of Habitual Pitch.
7. Stewart, S. (Completed Spring 2004). The Effect of Speaking Task on Perception of Severity of Hypokinetic Dysarthria.
8. Cockrell, B. (Completed Spring 2004). The Effect of Speaking Task on Perception of Severity of Hyperkinetic Dysarthria.
9. Davenport, D. (Completed Spring 2003). Reliability of Speech Intelligibility Ratings Using the Unified Huntington's Disease Rating Scale.
10. Marshall, W. (Completed Spring 2003). The Effect of Task on the Elicitation of Habitual Loudness.
11. Dennie, T. (Completed Spring 2002). Reliability of Speech Intelligibility Ratings Using the Unified Parkinson's Disease Rating Scale.

12. Jones, L. (Completed Spring 2002). Perception of Tracheoesophageal Speech by Different Listener Groups: I. Tracheoesophageal Speakers versus Their Significant Others.
13. Blake, S. (Completed Spring 2002). Perception of Tracheoesophageal Speech by Different Listener Groups: II. Speech-Language Pathologists versus Graduate Students.
14. Sykes, L. (Completed Spring 2001). Perceptual Discrimination of Dysarthria Subtypes: A Comparison of Two Methods.
15. Keyes, M. (Completed Spring 2001). Basal-to-Ceiling vs. Ceiling-to-Basal Elicitation of Maximum Phonational Frequency Range.
16. Nelson, J. (Completed Spring 1999). The Effect of Task on Determination of Maximum Phonational Frequency Range.
17. Skaggs, S. (Completed Spring 1998). The Effect of Task on Determination of Habitual Pitch.
18. Golzar, L. (Completed Spring 1998). The Effect of Voice Prosthesis Change on Speech Intelligibility.

**E. Directed Non-Thesis Graduate Research Projects:**

1. Bonkofsky, A. (Completed Spring 2009). Development of Standardized Patients with Right Hemisphere Communication Impairment.
2. Garner, K. (Completed Spring 2009). The Phonatory Aerodynamic System (PAS) Normative Study.
3. Jones, J. (Completed Spring 2008). The Phonatory Aerodynamic System (PAS) Normative Study.
4. Miles, L. (Completed Spring 2008). Development of Standardized Patients with Visual Neglect.
5. Cheatham, E. (Completed Spring 2008). Readings on Mild Cognitive Impairment and Alzheimer's Disease.

6. Taylor, J. (Completed Spring 2007). The CAPE-V Validation Study.
7. Privett, M. (Completed Fall 2005). Acoustic Analysis of Speech of Persons with Huntington's Disease.
8. Ashmore, R. (Completed Fall 2005). Acoustic Analysis of Speech of Persons with Parkinson's Disease.
9. Robinson, L. (Completed Fall 2005). Voice Deficits of Persons Suffering from Traumatic Brain Injury.
10. Griffin, A. (Completed Fall 2004). The Effect of Botox on Adductor Spasmodic Dysphonia with Essential Voice Tremor.
11. Whitehouse, E. (Completed Fall 2004). Variability in Speech and Voice of Normal Older Versus Younger Adults.
12. Ray, M. (Completed Fall 2004). Fluency of Persons with Huntington's Disease.
13. Wendel, K. (Completed Spring 2004). The Effect of Speaking Task on Perception of Abnormal Voice Quality.
14. Reeves, M. (Completed Spring 2003). Nasalance Values in Normal Geriatric Speakers of English.
15. Birdwell, K. (Completed Spring 2003). The Effect of Length of Speaking Sample on the Elicitation of Habitual Pitch.

**F. Teaching Presentations Within University Community:**

1. Zraick, R.I. (August, 2009). Communication Impairment after Right Hemisphere Brain Damage. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Neurology at UAMS.
2. Zraick, R.I. (June, 2009). Communication Impairment after Right Hemisphere Brain Damage. One-hour presentation to attendees at the Annual Stroke Symposium sponsored by UAMS.

3. Zraick, R.I. (April, 2009). Aphasia: Classic Clinical Syndromes. One-hour lecture given to first-year medical students at UAMS.
4. Zraick, R.I. (October, 2008). Communication Impairment after Right Hemisphere Brain Damage. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Geriatrics at UAMS.
5. Zraick, R.I. (April, 2008). Aphasia: 50 Years in 50 Minutes. One-hour lecture given to first-year medical students at UAMS.
6. Zraick, R.I. (February, 2008). Neurogenic Speech Disorders. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Neurosurgery at UAMS.
7. Zraick, R.I. (October, 2007). Neurogenic Speech Disorders. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Geriatrics at UAMS.
8. Zraick, R.I. (September, 2007). Classic Aphasia Syndromes. 90-minute Grand Rounds presentation to faculty, staff and students in the Department of Neurosurgery at UAMS.
9. Zraick, R.I. (April, 2007). Aphasia: 50 Years in 50 Minutes. One-hour lecture given to first-year medical students at UAMS.
10. Zraick, R.I. (September, 2006). Classic Aphasia Syndromes. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Geriatrics at UAMS.
11. Zraick, R.I. (September, 2006). Classic Aphasia Syndromes. 90-minute Grand Rounds presentation to faculty, staff and students in the Department of Neurosurgery at UAMS.
12. Zraick, R.I. (April, 2006). Aphasia: 50 Years in 50 Minutes. One-hour lecture given to first-year medical students at UAMS.
13. Zraick, R.I. (March, 2006). The Use of Standardized Alzheimer's Disease Patients and Families with Students in Speech-Language Pathology. UALR College of Professional Studies Research Symposium.

14. Zraick, R.I. (April, 2005). Aphasia: 50 Years in 50 Minutes. One-hour lecture given to first-year medical students at UAMS.
15. Zraick, R.I. (February, 2005). Using Standardized Patients to Train and Test Students in the Allied Health Professions. One-hour Lunch and Learn presentation to faculty, staff and students in the College of Health Related Professions.
16. Zraick, R.I. (February, 2005). Speech and Voice Characteristics of Geriatric Speakers. One-hour Grand Rounds presentation to faculty, staff and students in the Department of Geriatrics at UAMS.
17. Zraick, R.I. (January, 2005). The Use of Standardized Alzheimer's Disease Patients and Families with Students in Speech-Language Pathology. Teaching Scholars Health Professions Education Exhibit at UAMS.
18. Zraick, R.I. (April, 2004). Aphasia: 45 Years in 45 Minutes. One-hour lecture given to first-year medical students at UAMS.
19. Zraick, R.I. (November, 2003). A New Way to Teach: Clinical Training of Speech-Language Pathology Students Using Standardized Patients with Alzheimer's Disease. KUDOS Series (Knowledge, Understanding and Dialogue about Original Scholarship), University of Arkansas at Little Rock.
20. Zraick, R.I. (May 2003). Communication Skills of Persons with Alzheimer's Disease. Invited presentation for the UAMS Alzheimer's Disease Center Seminar Series, Little Rock, AR.
21. Zraick, R.I. (April, 2003). Aphasia: 45 Years in 45 Minutes. One-hour lecture given to first-year medical students at UAMS.
22. Zraick, R.I. (September 2002). The Use of Standardized Alzheimer's Disease Patients and Families to Teach and Test Clinical Management by Speech-Language Pathology Graduate Students. Paper presented at the First Annual UAMS Alzheimer's Disease Core Center Research Day, Little Rock, AR.
23. Zraick, R.I. (June 2002). Communicating with the Older Adult. One-hour lecture given to nurses in the AR-GEMS Summer Faculty Institute offered by the AR Geriatric Education Center.
- 24.

25. Zraick, R.I. (April, 2002). Aphasia: Differential Diagnosis. One-hour lecture given to first-year medical students at UAMS.
26. Zraick, R.I. (October, 2001). Evaluation and Treatment of Swallowing Disorders. 90-minute lecture given to students in Clinical Nutrition and Dietetics.
27. Zraick, R.I. (April, 2001). Aphasia: 60 Years in 60 Minutes. One-hour lecture given to first-year medical students at UAMS.
28. Zraick, R.I. (October, 2000). Dysphagia. 90-minute invited lecture given to graduate students in Clinical Nutrition and Dietetics at UAMS.
29. Zraick, R.I. (October, 2000). Speech Pathology Services at UAMS. One-hour in-service given to medical residents from the Department of Otolaryngology at UAMS.
30. Zraick, R.I. (July, 2000). Speech Pathology Services at UAMS. One-hour in-service given to medical residents from the Department of Otolaryngology at UAMS.
31. Zraick, R.I. (July, 1999). Differential Diagnosis of the Dysarthrias. One-hour in-service given to medical residents from the Department of Otolaryngology at UAMS.
32. Zraick, R.I. (April, 2000). Neurogenic Language Disorders. One-hour lecture given to first-year medical students at UAMS.
33. (April, 1999). Aphasia Classification System. One-hour lecture given to first-year medical students at UAMS.

## **Service Activities**

### **I. Professional Association Service**

1. Ad-hoc reviewer for the *International Journal of Therapy and Rehabilitation* (2008 to present).
2. Ad-hoc reviewer for the *Journal of Medical Speech-Language Pathology* (2002 to present).
3. Ad-hoc reviewer for the *Journal of Speech, Language and Hearing Research*

(2002 to present).

4. Ad-hoc reviewer for the *Cleft Palate-Craniofacial Journal* (2001 to present).
5. Ad-hoc reviewer for the Academy of Neurological Disorders and Sciences (2001 to present).
6. Panel reviewer for the New Century Scholars Program offered by the American Speech and Hearing Foundation (2004).
7. Panel reviewer for New Investigator Research Forum at the Voice Foundation's 38th Annual Symposium: Care of the Professional Voice, Philadelphia, PA (2009).
8. Program Committee for the Annual Convention of the Arkansas Speech and Hearing Association (2002, 2003, 2004). Chair of student posters and technical presentations.

## **II. University Service**

### **A. Committee Membership:**

1. UAMS Human Research Advisory Committee and Institutional Review Board for Behavioral and Social Research (Spring 2002 through Summer 2005).
2. UAMS Graduate Council Faculty Subcommittee (Spring 2001 through Spring 2005).
3. UAMS Graduate School Assessment Committee (Spring 1998 through Fall 2000).
4. UAMS Committee for Allocation of Graduate Student Research Funds (Summer 1998 through Fall 2000).
5. UAMS Faculty Senate Academic Affairs Committee (Fall 1998 to Fall 2000).
6. UAMS Clinical Skills Center Advisory Board (Spring 1998 to present).
7. UAMS Rural Health Telemedicine Governance Council (Spring 1998 through Fall 2000).
8. UAMS Internet 2 Committee (Spring 1998 through Fall 2000).

9. UALR Academic Adjustment Committee (Fall 1998 through Summer 1999).

**B. Presentations To Central Arkansas Community:**

1. Zraick, R.I. (May, 2009). Communication Disability in Aging. One-hour lecture given to attendees of the AR-GEMS Summer Faculty Institute offered by the AR Geriatric Education Center.
2. Zraick, R.I. (February, 2009). Speech and Voice Characteristics of Geriatric Speakers. One-hour seminar sponsored by the AR Geriatric Education Center for their Video Teleconference on Communication Challenges in Older Adults.
3. Zraick, R.I. (June, 2008). Speech and Voice Characteristics of Geriatric Speakers. One-hour seminar sponsored by the AR Geriatric Education Center for their Summer Institute on Aging.
4. Zraick, R.I. (June, 2006). Speech and Voice Characteristics of Geriatric Speakers. One-hour seminar sponsored by the AR Geriatric Education Center for their Summer Institute on Aging.
5. Zraick, R.I. (April, 2005). Communicating with Persons with Alzheimer's Disease. One-hour in-service given to professionals at Saline Memorial Hospital (Benton, AR) for their Generations Lunch and Learn Series.
6. Zraick, R.I. (May, 2005). Speech and Voice Characteristics of Geriatric Speakers. One-hour seminar sponsored by the AR Geriatric Education Center for their Summer Institute on Aging.
7. Zraick, R.I. (January, 2004). Is There an Effect of Speaking Task on Acoustic Measures of Voice Production? Seminar for the Central Arkansas Voice Consortium, Little Rock, AR.
8. Zraick, R.I., & Johnson, F.L. (October, 2003). Medical and Behavioral Evaluation and Treatment of Pediatric Voice Disorders. Seminar at the Annual Education Conference of the Little Rock School District, Little Rock, AR.
9. Zraick, R.I. (May, 2001). Evaluation and Treatment of Voice Disorders in School-Aged Children. Seminar at the Annual Education Conference of the Little Rock School District, Little Rock, AR.

10. Zraick, R.I. (May, 2001). Evaluation and Treatment of Resonance Disorders in School-Aged Children. Seminar at the Annual Education Conference of the Little Rock School District, Little Rock, AR.
11. Zraick, R.I. (1999, September). Evaluation and Treatment of Swallowing Disorders. Conway Human Development Center. Conway, AR.
12. Zraick, R.I. (1999, August). Speech Pathology 101: A Primer for Dental Hygienists. Invited seminar for the Arkansas State Dental Hygienist's Association Summer CE Series. England, AR.
13. Zraick, R.I. (1997, November). Compensatory Voicing Techniques for Spasmodic Dysphonia. One-hour lecture given to the support group of the Spasmodic Dysphonia Association of Arkansas.

### **III. College Service**

#### **A. Committee Membership:**

1. UALR College of Professional Studies (CPS) Recruitment and Retention Committee (Fall 2006 to present).
2. UAMS College of Health Related Professions (CHRP) Faculty Services Committee (Fall 2006 to Spring 2008).
3. UAMS CHRP Curriculum Committee (Summer 2000 through Summer 2005).
4. UAMS CHRP Student Affairs Committee (Summer 1998 through Summer 2000).
5. UAMS CHRP Grievance Committee (Fall 2001 to present).

#### **B. Recruitment:**

1. Introduction to the Professions of Audiology and Speech Pathology. One-hour lecture given to high school students as part of the UAMS CHRP Summer Outreach Program (July, 2001).
2. Introduction to the Professions of Audiology and Speech Pathology. One-hour lecture given to high school students as part of the UAMS CHRP Summer Outreach Program (July, 2000).

3. Introduction to the Professions of Audiology and Speech Pathology. One-hour lecture given to high school students as part of the UAMS CHRP Summer Outreach Program (July, 1999).

**C. Public Relations:**

1. Evaluation and Treatment of Voice Disorders. Invited co-speaker on KARN's Medical Center Radio Show hosted by Dale Seidenschwartz. 60 minutes. (July, 1999).

**IV. Department Service**

**A. Committee Membership:**

1. Chair, Search Committee for Doctoral Consortium Director (Spring 2008 to Fall 2008).
2. Chair, Search Committee for Speech Pathology Faculty Position (Fall 2000 to Fall 2002).
3. Chair, Continuing Education Committee (Fall 2000 to Fall 2007).
4. Chair, Speech Pathology Curriculum Committee – Fall 2002 to present.
5. Member, Search Committee for Speech Pathology Faculty Positions (2004, 2005, 2008).
6. Member, Promotion and Tenure Committee (Fall 2004 to Spring 2008).
7. Member, Continuing Education Committee (Fall 1998 to Fall 2000).
8. Member, Speech Pathology Graduate Program Assessment Committee (1998 to present).
9. Member, Speech Pathology Graduate Program Financial Aid Committee (1998 to 2000).
10. Member, Consortium Doctoral Program Committees (Fall 1998 to present).

**B. Participation in Department-Sponsored Continuing Education:**

1. Zraick, R.I. (February, 2005). Treatment of Voice Disorders. One-half day workshop, Little Rock, AR.
2. Zraick, R.I., & Johnson, F.L. (February, 2004). Voice Across the Lifespan. All-day workshop, Little Rock, AR.
3. Zraick, R.I., Hart, J., Henderson, V., & Pippenger, M. (May 2003). Communicating with Persons with Alzheimer's Disease. Seminar for the workshop, "AD: Where Do We Begin and When Do We End?" Little Rock, AR.
4. Zraick, R.I. & others (March, 2003). Speech-Language Pathology Review Course sponsored by our department. Gave three, one-hour lectures on neurogenic communication disorders and fluency disorders. Little Rock, AR.
5. Zraick, R.I. & others (February, 2002). Speech-Language Pathology Review Course sponsored by our department. Gave three, one-hour lectures on neurogenic communication disorders and fluency disorders. Little Rock, AR.
6. Zraick, R.I. & others (March, 2001). NTE Review Course sponsored by our department. Gave two, one-hour lectures on neurogenic communication disorders. Little Rock, AR.
7. Zraick, R.I. & others (March, 1999). NTE Review Course sponsored by our department. Gave two, one-hour lectures on neurogenic communication disorders. Little Rock, AR.
8. Zraick, R.I. & others (March, 1998). NTE Review Course sponsored by our department. Gave two, one-hour lectures on neurogenic communication disorders. Little Rock, AR.

**C. Master's Thesis Committees:**

1. Smith, R. (In progress). Knowledge of Speech-to-Text Services by High School Students. Directed by Sam Atcherson, Ph.D.
2. Lyle, C. (May 2008). Speech Fluency of Persons with Parkinson's Disease and Huntington's Disease. Directed by Brent Gregg, Ph.D.

3. Burrow, L. (May, 2003). The Attitudes of Adult Children of Persons with Aphasia. Directed by Priscilla Davis, Ph.D.
4. Reel, M. (May, 2002). The Development of a Training Module to Increase Graduate Students' Ability to Identify Perceptual Characteristics of Children with Mild Autism. Directed by Betholyn Gentry, Ph.D.
5. Phillips, S. (May, 2000). The Effects of Word Final Devoicing of /z/ on the Perception of Effeminate Voice. Directed by Elisa Huff, Ph.D.

**D. Other:**

1. Developer and Webmaster for the Department's website (Summer 1997 to present).
2. NSSLHA (Student pre-professional group) Chapter Advisor (Fall 1997 to Summer 1999).

**Prior Professional Work Experience (All In Arizona)**

January 1990 to July 1997	President and Clinical Director, Zraick Therapy Consultants, Inc.
August 1990 to July 1997	Speech-Language Pathology Consultant, Arizona Physicians Center; Ear, Nose & Throat.
June 1994 to July 1997	Speech-Language Pathology Consultant, Arizona State Department of Economic Security Comprehensive Medical and Dental Program.
August 1991 to July 1997	Contract Speech-Language Pathologist, Sundance Rehabilitation, Inc.
January 1990 to August 1990	Contract Speech-Language Pathologist, Boswell Memorial Hospital.
September 1989 to Jan. 1990	Director of Speech-Language Pathology, Arizona Rehabilitation Center.

September 1988 to August 1989 Speech-Language Pathologist,  
Valley of the Sun Rehabilitation Hospital.

November 1987 to August 1988 Clinical Fellow in Speech-Language Pathology,  
Sun Rehabilitation Agency/Inspeech-Novacare, Inc.