

Curriculum Vitae

Terrence R. Oakes, Ph.D.

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Education:

Post-doctoral	University of British Columbia	1998
Ph.D. (Medical Physics)	University of Wisconsin-Madison	1995
M.S. (Medical Physics)	University of Wisconsin-Madison	1990
B.S. (Physics, cum laude)	University of Dallas, Texas	1988

Professional Experience:

2001 – present: Director of Image Analysis and Visualization, Waisman Laboratory for Functional Brain Imaging.

- Develop analysis techniques and associated software for PET, fMRI, MRI, DTI, and EEG data.
- Develop and implement new display methods for brain imaging data.
- Coordinate acquisition and analysis of multi-modality brain function studies.
- Perform original research focused on methodology for improving quality of MRI and PET data.

2003 – 2005: Interim Director of Research PET, Waisman Laboratory for Functional Brain Imaging, Waisman Center, University of Wisconsin-Madison

- Oversee design and acquisition of PET studies.
- Supervise accelerator operation for production of radionuclides.
- Implement and develop data analysis techniques appropriate to each study.
- Coordinate human and animal research PET studies between accelerator, radiochemistry, and PET scanners.
- Supervise PET personnel, graduate students and student workers, and administer Radiation Safety.

1998-2001: Associate Scientist, Lab for Affective Neuroscience, University of WI-Madison Psychology Dept.

- Developed analysis techniques and software for PET, fMRI, MRI and EEG data; significant projects include EEG/PET comparison, ROI drawing/analysis, coregistration, automated segmentation, 3D brain structure display, FDG and CBF quantitation.
- Investigated PET scanner characteristics and the impact on data analysis; optimized acquisition and processing.
- Designed acquisition and analysis protocols for PET studies.
- Developed cross-platform (SUN/PC) image analysis software and web-based GUIs.
- Aided design team for new integrated functional imaging lab facility (Keck Lab).
- Supervised post-doctoral and undergraduate students as well as several staff members of our lab.
- Implemented and tested analysis software: SPM, AIR, MPITool, AFNI, BrainVoyager.

1995-1998: NIH Post-doctoral Fellow at UBC/TRIUMF PET Centre, Vancouver, Canada.

- Developed and implemented a method for PET scanner normalization in 3D mode.
- Implemented and evaluated methods for 3D scatter-correction and calibration of PET scanner.
- Validated 3D PET accuracy with phantom and human studies.
- Designed and constructed radioactive sources.
- Developed software for analysis of PET image data, including multiple-time graphical analysis, target-to-background ratio method, and ROI placement and analysis using coregistered MRI data.
- Implemented synthesis of [¹⁸F]-fluoromethane and a gas-phase synthesis of [¹¹C]-methyl iodide.
- Developed Monte Carlo simulations for radioactivity source configurations.

1993-1994: NIH Trainee, University of Wisconsin-Madison; Thesis advisor Prof. R.J. Nickles.

- Completed doctoral thesis: "Clinical Investigation of the Dopaminergic System with PET and [¹⁸F]-Fluoro-L-DOPA", UW-Madison (Medical Physics Dept.), 1995.
- Measured uptake of [¹⁸F]-L-DOPA in Parkinson's Disease and normal human subjects with PET.

- Developed computer programs to analyze quantitative PET image data.
- Measured radioactive [¹⁸F]-L-DOPA metabolites in blood using a multiple-coincidence low-level detector.
- Determined radioactive dosimetry for [¹⁸F]-L-DOPA in human subjects.

1989-1992: Research Assistant, University of Wisconsin-Madison Cyclotron Facility

- Operated and maintained a medical-isotope cyclotron.
- Developed cyclotron targets.
- Synthesized and performed QA/QC of common PET tracers ([¹⁸F]-FDG, [¹⁵N]-NH₃, [¹⁸F]-F-L-DOPA) in support of the routine clinical activities at the UW-Madison PET Centre.
- Constructed device to measure radioactive blood time-activity curve.
- Responsible for routine PET blood-flow studies in humans using [¹⁸F]-fluoromethane.
- Formal coursework in Nuclear Medicine, Image Analysis/Reconstruction, Radioactivity Detectors, Health Physics, Radioactive Dosimetry, Radiobiology, X-Ray/CT, Ultrasound, Neurochemistry.

1991 October: Visiting Scholar, Åbo Akademi, Turku, Finland; Collaboration with Dr. Olaf Solin.

- Developed synthesis of gaseous [¹⁸F]-F₂ from aqueous [¹⁸F]-F⁻.
- Used gas chromatography to measure reaction completeness.

1988: Summer Intern at Medtronic, Inc., Minneapolis, MN

- Worked with Cardiac Assist group to develop an aortic cardiac assist device.
- Constructed apparatus to test cardiac assist device *in vitro*, participated in canine *in vivo* tests.

1986-1988: Teaching Assistant, Univ. of Dallas Physics Dept.

- Five laboratory sections in General Physics, Astronomy, and Optics.

Doctoral Thesis:

Clinical Investigation of the Dopaminergic System with PET and ¹⁸F-Fluoro-L-DOPA.
University of Wisconsin-Madison (Medical Physics Dept.), 1995.

Manuscripts and Abstracts in Progress

“5-HTT binding in the bed nucleus of the stria terminalis predicts individual differences in anxious temperament”, Shelton SE, Fox AS, Oler JA, Oakes TR, Christian BT, Davidson RJ, Kalin NH, *abstract submitted to ISBNEABS*, 2008.

“Activation of subgenual PFC predicts cortisol responses across various contexts in rhesus monkeys”, Jahn AL, Fox AS, Abercrombie HC, Shelton SE, Oakes TR, Davidson RJ, Kalin NH, *submitted to Nature Neuroscience*, March 2008.

“Database of D2/D3 Receptor Binding in the Adolescent Rhesus Monkey”, BT Christian, D Murali, NT Vandehey, AS Fox, TR Oakes, RJ Nickles, SE Shelton, RJ Davidson, NH Kalin, *abstract submitted to Society of Nuclear Medicine Meeting, June, 2008*.

Refereed Publications

“Efficient Modeling and Inference for Event-Related fMRI Data”, C Zhao, Y Lu, T Johnstone, TR Oakes, RJ Davidson, *in press, Computational Statistics and Data Analysis*, 2008.

“Trait-like brain activity during adolescence predicts anxious temperament in primates.”, Fox AS, Shelton SE, Oakes TR, Davidson RJ, Kalin NH, *PLoS ONE*, Jul 2;3(7):e2570, 2008.

“The Serotonin Transporter Genotype is Associated with Intermediate Brain Phenotypes that Depend on the Context of the Eliciting Stressor,” Kalin NH, Shelton SE, Fox AS, Davidson RJ, Rogers J, Oakes TR, *in press, Molecular Psychiatry*, 2008.

“Glucose metabolic changes in the prefrontal cortex are associated with HPA axis response to a psychosocial stressor”, Kern S, Oakes TR, Stone CK, McAuliff EM, Kirschbaum C, Davidson RJ, *Psychoneuroendocrinology*, 33(4):517-29, 2008.

“Automatic Physiological Waveform Processing for fMRI Noise Correction and Analysis”, Kelley DJ, Oakes TR, Greischar LL, Chung MK, Ollinger JM, Alexander AL, Shelton SE, Kalin NH, Davidson RJ, *PLoS ONE* 3(3): e1751, 2008.

"Integrating VBM into the General Linear Model with Voxelwise Anatomical Covariates", TR Oakes, AS Fox, T Johnstone, MK Chung, N Kalin, RJ Davidson, *NeuroImage*, 34:500-508, 2006.

"The voice of emotion: an fMRI study of neural responses to angry and happy vocal expressions", T Johnstone, CM van Reekum, TR Oakes, RJ Davidson, *Soc Cogn Affect Neurosci*, 1(3):242-249, 2006.

"Diffusion Tensor Imaging of the Corpus Callosum in Autism", Alexander AL, Lee JE, Lazar M, Boudos R, Dubray MB, Oakes TR, Miller JN, Lu J, Jeong EK, McMahon WM, Bigler ED, Lainhart JE, *NeuroImage*, 34(1):61-73, 2006.

"Amygdala Volume and Nonverbal Social Impairment in Adolescent and Adult Males with Autism", Nacewicz BM, Dalton KM, Johnstone T, Long M, McAuliff EM, Oakes TR, Alexander AL, Davidson RJ, *Arch Gen Psychiatr.*, 63(12):1417-28, 2006.

"D2/D3 dopamine receptor binding with [F-18]fallypride in thalamus and cortex of patients with schizophrenia", MS Buchsbaum, BT Christian, DS Lehrer, TK Narayanan, B Shi, J Mantil, E KeMether, TR Oakes, J Mukherjee, *Schizophrenia Research*, 85(1-3):232-44, 2006.

"Motion correction and the use of motion covariates in multiple-subject fMRI analysis", Johnstone T, Ores Walsh KS, Greischar LL, Alexander AL, Fox AS, Davidson RJ, Oakes TR, *Human Brain Mapping*, 27(10):779-88, 2006.

"Comparison of fMRI Motion Correction Software Tools", TR Oakes, T Johnstone, KS Ores Walsh, LL Greischar, AL Alexander, AS Fox, RJ Davidson, *Neuroimage*, 28(3):529-543, 2005.

"Brain regions associated with the expression and contextual regulation of anxiety in primates", NH Kalin, SE Shelton, AS Fox, TR Oakes, RJ Davidson, *Biological Psychiatry*, 58(10):796-804, 2005.

"Aromatic L-amino acid decarboxylase turnover in vivo in rhesus macaque striatum: a microPET study", DeJesus OT, Flores LG, Murali D, Converse AK, Bartlett RM, Barnhart TE, Oakes TR, Nickles RJ, *Brain Research*. 1054(1):55-60, Aug 23 2005.

"Stability of Amygdala BOLD Response to Fearful Faces over Multiple Scan Sessions", Johnstone T, Somerville LH, Alexander AL, Oakes TR, Davidson RJ, Kalin NH, Whalen PJ, *Neuroimage*, 25(4):1112-1123, 2005.

"Thalamic and Prefrontal FDG Uptake in Never Medicated Patients With Schizophrenia", DS Lehrer, BT Christian, J Mantil, AC Murray, BR Buchsbaum, TR Oakes, W Byne, EM Kemether, MS Buchsbaum, *Am. J. Psychiatry*, 162:931-938, 2005.

"Calling for help is independently modulated by brain systems underlying goal-directed behavior and threat perception", AS Fox, TR Oakes, SE Shelton, AK Converse, RJ Davidson, NH Kalin, *Proc Natl Acad Sci U S A*, 102(11):4176-9 Mar 15 2005.

"Functional coupling of simultaneous electrical and metabolic activity in the human brain.", Oakes TR, Pizzagalli DP, Hendrick AM, Horras KA, Larson CL, Abercrombie HC, Schaefer SM, Koger JV, Davidson RJ, *Human Brain Mapping*, 21(4):257-270, 2004.

"A F-17 PET/TMS study of effective connectivity", F Ferrarelli, HM Haraldsson, TE Barnhart, AD Roberts, TR Oakes, M Massimini, NH Kalin, CK Stone, G Tononi, *Brain Research Bulletin*, 64(2):103-113, 2004.

"Functional but not structural subgenual prefrontal cortex abnormalities in melancholia", Pizzagalli DA, Oakes TR, Fox AS, Chung MK, Larson CL, Abercrombie HC, Schaefer SM, Benca RM, Davidson RJ, *Molecular Psychiatry*, 9:393-405, 2004.

"Orbitofrontal cortex tracks positive mood in mothers viewing pictures of their infants." Nitschke JB, Nelson EE, Rusch BD, Fox AS, Oakes TR, Davidson RJ, *NeuroImage*, 21(2):583-92, 2004.

"Coupling of theta activity and glucose metabolism in the human rostral anterior cingulate cortex: An EEG/PET study of normal and depressed subjects", Pizzagalli D, Oakes TR, Davidson RJ, *Psychophysiology*, 40:939-949, 2003.

"Addressing the Third Gamma Problem in PET", Schueller MJ, Mulnix TL, Christian BT, Jensen M, Holm S, Oakes TR, Roberts AD, Dick DW, Martin CC, Nickles RJ. *IEEE Trans. Nucl. Science*, 50(1):50-52, 2003.

“Subgenual prefrontal and orbitofrontal cortex dysfunction in melancholia: Functional and structural correlates using concurrent EEG/PET measurements and voxel-based MRI morphometry analyses”. Pizzagalli DA, Chung M, Oakes TR, Davidson RJ. *Psychophysiology* 39:S66, 2003.

“Brain electrical tomography in depression: The importance of symptom severity, anxiety and meloncholic features”, Pizzagalli DA, Nitschke JB, Oakes TR, Hendrick AM, Horras KA, Larson CL, Abercrombie HC, Schaefer SM, Koger JV, Benca RM, Pascual-Marqui RM, Davidson RJ, *Biological Psychiatry*, 52(2):73-85, 2002.

“Hippocampal morphometry in depressed patients and control subjects”, BD Rusch, HC Abercrombie, TR Oakes, SM Schaefer, RJ Davidson, *Biological Psychiatry*, 50:960-964 , 2001.

“Anterior cingulate activity as a predictor of degree of treatment response in major depression: Evidence from brain electrical tomography analysis.” Pizzagalli D, Pascual-Marqui RD, Nitschke JB, Oakes TR, Larson CL, Abercrombie HC, Schaefer SM, Koger JV, Benca .M and Davidson RJ, *American Journal of Psychiatry*, 158:405-415, 2001.

“Comparison of 2D and 3D PET for Cerebral FDG in Human Subjects”, TR Oakes, JE Holden, RW Pyzalski, AD Roberts, WD Brown, RJ Nickles, RJ Davidson, *IEEE Trans. Nucl. Science*, 47(3):1233-1241, June 2000.

“Six-month test-retest reliability of MRI-defined PET measures of regional cerebral glucose metabolic rate in selected subcortical structures”, Schaefer SC, Abercrombie HC, Lindgren KA, Larson CL, Ward RT, Oakes TR, Holden JE, Perlman SB, Turski PA, Davidson RJ, *Human Brain Mapping*, 10:1-9, 2000.

“FluoroDOPA PET shows the non-dopaminergic as well as dopaminergic destinations of levodopa”, WD Brown, MD Taylor, AD Roberts, TR Oakes, MJ Schueller, JE Holden, LM Malischke, OT DeJesus, RJ Nickles, *Neurology*, 53(6):1212-8, 1999 Oct 12 1999.

“Thalamic metabolic rate predicts EEG alpha power in healthy controls but not in depressed patients”, KA Lindgren, CL Larson, SM Schaefer, HC Abercrombie, RT Ward, TR Oakes, JE Holden, SB Perlman, RM Benca, RJ Davidson, *Biological Psychiatry*, 45(8):943-952, 1999.

"Fluorine-18-fluoro-L-DOPA dosimetry with Carbidopa Pretreatment", WD Brown, TR Oakes, OT DeJesus, MD Taylor, AD Roberts, RJ Nickles, Holden JE, *J. Nucl. Med.*, 39:1884-91, 1998.

"Quantitative comparison of three- and two-dimensional PET with human brain studies", V Sossi, TR Oakes, GL Chan, M Schulzer, TJ Ruth; *J.Nucl.Med.*, 39(10):1714-9, 1998.

“Metabolic rate in the right amygdala predicts negative affect in depressed patients”, HC Abercrombie, SM Schaefer, CL Larson, TR Oakes, KA Lindgren, JE Holden, SB Perlman, PA Turski, DD Krahn, RM Benca, RJ Davidson, *NeuroReport*, 9(14):3301-3307, 1998.

"A phantom study evaluating the quantitative aspect of 3D PET imaging of the brain", V Sossi, TR Oakes and TJ Ruth, *Phys.Med.Biol.*, 43(9):2615-2630, 1998.

"Normalization for 3D PET with a low-scatter planar source and measured geometric factors", TR Oakes, V Sossi and TJ Ruth; *Phys.Med.Biol.*, 43(4):961-972, 1998.

"Development of an improved target for [18F]-F2 production", AD Roberts, TR Oakes and RJ Nickles; *Appl. Radiat. Isot*, 46:87, 1995.

"Synthesis of the Fluorine-18 Labeled Inhalation Anesthetics", MR Satter, CC Martin, TR Oakes, BF Christian and RJ Nickles; *Appl. Radiat. Isot.*, vol. 45 no. 11, pp. 1093-1100, 1994.

“Evaluation of 3-[18F]fluoro-alpha-fluoromethyl-p-tyrosine as a tracer for striatal tyrosine hydroxylase activity”, DeJesus OT, Murali D, Kitchen R, Endres C, Oakes TR, Shelton SE, Freund L, Houser D, Uno H, Holden JE, et al., *Nuclear Medicine & Biology*, 21(4):663-667, 1994.

"Direct Synthesis of 3-fluoro-a-fluoromethyl-p-tyrosine", OT DeJesus, D Murali, R Kitchen, TR Oakes and RJ Nickles; *Journal of Fluorine Chemistry*, 65(1-2):73-77, 1993.

"Visualization of dopamine nerve terminals by positron emission tomography using [18F]Fluoro-Beta-

Fluoromethylene-m-Tyrosine", OT DeJesus, JE Holden, C Endres, D Murali, TR Oakes, S Shelton, H Uno, D Houser, L Freund, SB Perlman and RJ Nickles; *Brain Research*, 597 pp. 151-154, 1992.

Refereed Abstracts and Presentations

"Simultaneous Dual Tracer PET Imaging of Alterations in Dopamine D2 Receptor Occupancy and Blood Flow in Rhesus Brain", AK Converse, JM Moirano, LG Flores, KL Vogt, JA Hampel, D Murali, NT Vandehey, EM Smith, TR Oakes, AD Roberts, BT Christian, OT DeJesus, JE Holden, RJ Nickles, RJ Davidson, *Joint Molecular Imaging Conference (AMI), September 7-11 2007*.

"The serotonin transporter genotype in rhesus monkeys is associated with different intermediate brain phenotypes in response to the context of an eliciting stressor", Ned Kalin, Steven Shelton, Andrew Fox, Jeffrey Rogers, Terrence Oakes and Richard Davidson, *abstract for World Congress of Psychiatric Genetics, New York, 2007*.

"Adult and elderly rhesus macaque atlas template for functional and structural imaging", K Kosmatka, D McLaren, C Kroenke, J Matochik, D Ingram, S Kohama, T Oakes, S Johnson, *presented at 13th Annual meeting of the Organization for Human Brain Mapping, Chicago, USA, June 2007*.

"Investigation of D2 receptor changes during hypothalamic deep brain stimulation using [¹⁸F]Fallypride", NT Vandehey, TR Oakes, BT Christian, et al., *Proc. SNM Conference, Washington, D.C., USA, June 2007*.

"Sensitivity of random effects analysis to group size and individual outliers: A jackknife study", P Venkat, AL Alexander, T Johnstone, TR Oakes, *Proc. ISMRM, Berlin, Germany, May 2007*.

"Studies in Rhesus Monkeys Reveal that 5-HTT S-Carriers have Multiple Stress Associated Neural Vulnerabilities", AS Fox, SE Shelton, TR Oakes, AK Converse, RJ Davidson, NH Kalin, *abstract presented to Society of Biological Psychiatry Conference, 2007*.

"OFC lesions affect monkey's neural responses to a human intruder", AS Fox, SE Shelton, TR Oakes, AK Converse, RJ Davidson, NH Kalin, *abstract presented at the New York Academy of Sciences Conference on the Orbital Frontal Cortex, New York, 2007*.

"Exploring the neural substrates for emotion regulation and psychopathology in non-human primates", AS Fox, SE Shelton, TR Oakes, AK Converse, RJ Davidson, NH Kalin, *Proc. Conference of Cognitive Neuroscience Society, 2007*.

"Hierarchical brain model for coregistration: A physical model for analysis of brain MRI data", TR Oakes, *Proc. Second International Conference on Computer Graphics Theory and Applications (GRAPP 2007), Barcelona, pp. 103-108, March 2007*.

"Coping Style and Neural Substrates of Psychosocial Stress in Humans", S Kern, TR Oakes, C Kirschbaum, RJ Davidson, *Proc. American Psychosomatic Society, abstract #1745, Budapest, Hungary, March 7-10, 2007*.

"Absolute myocardial blood flow measures by 1st-pass MR perfusion imaging: Comparison with O-15 water positron emission tomography", TF Christian, SM Chang, TR Oakes, *Proc. Society for Cardiovascular Magnetic Resonance, Rome, Italy, Feb. 2-4, 2007*.

"Patterns of Brain Activity in Monkeys that Display High and Stable Levels of Behavioral Inhibition", SE Shelton, AS Fox, TR Oakes, RJ Davidson, NH Kalin, *presented at Society for Neuroscience Conference, Atlanta, 2006*.

"Optimizing BET and FAST for suboptimal MRI data", TR Oakes, Y-F Kuo, T Johnstone, AL Alexander, AS Fox, RJ Davidson, *presented at 12th Annual meeting of the Organization for Human Brain Mapping, Florence, Italy, June 2006*.

"RGB Color Maps: Why should those DTI folks have all the fun?", TR Oakes, BT Christian, AL Alexander, DS Fox, CK Stone, RJ Davidson, *presented at 12th Annual meeting of the Organization for Human Brain Mapping, Florence, Italy, June 2006*.

"GLM analysis of fMRI data: a comparison of software tools and methods", Johnstone T, Oakes TR, Ores-Walsh, K, *presented at 12th Annual meeting of the Organization for Human Brain Mapping, Florence, Italy, June 2006*.

“A PET/CT Study of Cerebral Dopamine D2 Receptors in Rhesus Macaque Fetus in utero”, OT DeJesus, RM Bartlett, LG Flores, D Murali, AK Converse, TR Oakes, RJ Nickles, R Jeraj, CJ Jaskowiak, *oral presentation at Society of Nuclear Medicine annual meeting*, June 2006.

“Simultaneous dual tracer PET imaging of alterations in dopamine D2 receptor occupancy and blood flow in rat brain”, Converse AK, Moirano JM, Vandehey NT, Murali D, Flores LG, Oakes TR, Holden JE, Roberts AD, Ruth TJ, DeJesus OT, Nickles RJ, Davidson RJ, *accepted poster, Neuroreceptor Mapping Conference*, Copenhagen, 6-8 July 2006.

“Autism Eye Gaze Behavior Depends on Functional Amygdala Connectivity with the Superior Temporal Area”, DJ Kelley, KM Dalton, BM Nacewicz, T Johnstone, ML Chung, TR Oakes, AL Alexander, RJ Davidson, poster presented at XXX, Chicago, March 2006.

“Diffusion Tensor Imaging Study of Thalamus in Autism”, Lazar M, Baxter B, Alexander AL, Oakes T, Bigler E, Lainhart J., *5th International Meeting For Autism Research*, Montreal, Canada, 2006.

“Identification of Activation Correlated Motion Artifacts in Multiple-Subject fMRI”, KS Ores Walsh, TR Oakes, T Johnstone, LL Greischar, AL Alexander, AS Fox, Richard J Davidson, *Poster presentation at 11th Annual meeting of the Organization for Human Brain Mapping, Toronto, Canada*, June 2005.

“WINTER: Wisconsin Neuroimaging Tools Evaluation Resource”, T Johnstone, K Ores-Walsh, TR Oakes, *Poster presentation at 11th Annual meeting of the Organization for Human Brain Mapping, Toronto, Canada*, June 2005.

“Condor: Managing Computationally Intensive Jobs from a Computer Science Perspective”, AS Fox, M Farrellee, A Roy, RJ Davidson, TR Oakes, *Poster presentation at 11th Annual meeting of the Organization for Human Brain Mapping, Toronto, Canada*, June 2005.

“Methodological Development of Dynamic Dopamine Release Using [¹⁸F]Desmethoxyfallypride”, TE Barnhart, AK Converse, TR Oakes, JA Nye, DW Dick, D Murali, F Ferrarelli, M Massimini, G Tononi, ML Schneider, JA Larsen, J Mukherjee, CK Stone, OT DeJesus, RJ Nickles, AD Roberts, *Proc. of BrainPET '05, Amsterdam*, June 7-12 2005.

“Regional brain metabolism in marmoset reproductive behavior”, AK Converse, DK Barnett, TR Oakes, AD Roberts, DH Abbott, *Proc. of BrainPET '05, Amsterdam*, June 7-12 2005.

“Anisotropic Kernel Smoothing of DTI Data”, J Lee, MK Chung, TR Oakes, AL Alexander, *Proceedings of 13th ISMRM Scientific Meeting*, Miami, 2005.

“Characterization of Voxel-Based Variance in DTI Measurements”, Levy DM, Fisher TG, Chung M, Lee JE, Lee JH, Lazar M, Oakes TR, Kim JS, Alexander AL, *Proceedings of 13th ISMRM Scientific Meeting*, p 1318, Miami, USA, 2005.

“Altered Functional Connectivity of Amygdala Emotional Face Processing Circuitry in Autism”, D Kelley, KM Dalton, BM Nacewicz, T Johnstone, TR Oakes, RJ Davidson, *poster presentation, SFN 2005*.

“Decreased Amygdala Volume in Non-Autistic Siblings of Individuals with Autism”, BM Nacewicz, KM Dalton, MT Long, EM McAuliff, TR Oakes, T Johnstone, A Alexander, RJ Davidson, *poster presentation, SFN 2005*.

“Patterns of Brain Activation Associated with Attachment Bond Disruption and Affiliative Vocalizations in Rhesus Monkeys: A FDG MicroPET Study”, Fox AS, Oakes TR, Shelton SE, Davidson RJ, Kalin NH, *Poster presentation at SFN, 2004*.

“Analysis of microPET FDG data from awake rhesus monkeys”, TR Oakes, AS Fox, AK Converse, TE Barnhart, NT Vandehey, PJ Thotakarra, SE Shelton, NH Kalin, *Poster presented at IEEE Medical Imaging Conference*, Rome, Italy, October 16-22, 2004.

“Comparison of fMRI Motion Corrections Using Realistic Synthetic Data”, TR Oakes, KS Ores, IT Johnstone, AL Alexander, AS Fox, LL Greischar, RJ Davidson, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary* June 13-17, 2004.

“Comparison of Motion Correction Tools for fMRI ER Data”, K Ores, TR Oakes, IT Johnstone, AL Alexander, AS Fox, RJ Davidson, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary* June 13-17, 2004.

“Task-related modulation of amygdala response to emotional expressions”, T Johnstone, KS Ores, AL Alexander, TR Oakes, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping*, Budapest, Hungary June 13-17, 2004.

“TMS Brain Activation Using [17F]CH3F/PET to Measure rCBF”, TE Barnhart, AK Converse, KA Dabbs, TR Oakes, RJ Nickles, CK Stone, F Ferrarelli, HM Haraldsson, G Tononi, AD Roberts, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping*, Budapest, Hungary June 13-17, 2004.

“Effects of Voxel Size Dimensions on the Distribution of Brain FA Values in Diffusion Tensor Imaging”, A Alexander, M Lazar, T Oakes, J Graner, A Field, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping*, Budapest, Hungary June 13-17, 2004.

“D2/D3 Dopamine Receptor Availability and FDG Metabolism in Medication Naïve Schizophrenics”, BT Christian, M Buchsbaum, D Lehrer, TK Narayanan, B Shi, J Mantil, TR Oakes, J Mukherjee, *Poster presentation at 10th Annual meeting of the Organization for Human Brain Mapping*, Budapest, Hungary June 13-17, 2004.

“Evaluation of [18F]IRESSA as PET imaging agent for tumors overexpressing epidermal growth factor receptor”, OT DeJesus, D Murali, LG Flores, AK Converse, RM Bartlett, DW Dick, TR Oakes, TE Barnhart, EA Armstrong, RJ Nickles, PM Harari, *Presentation at 51st Annual Meeting, Society of Nuclear Medicine*, Philadelphia, PA June 19 - 23, 2004.

“[17F]CH3F vs. [15O]H2O: rCBF Measurements in Human Activation Experiments”, Barnhart TE, Converse AK, Dabbs KA, Oakes TR, Nickles RJ, Stone CK, Haraldsson HM, Tononi G, Roberts AD, *Poster presentation at 51st Annual Meeting, Society of Nuclear Medicine*, Philadelphia, PA June 19 - 23, 2004.

“Dosimetry Estimates for [18F] Desmethoxyfallypride”, TE Barnhart, OT DeJesus, LG Flores, DMurali, AK Converse, RM Bartlett, TR Oakes, J Mukherjee, RJ Nickles, AD Roberts. *Oral presentation at 51st Annual Meeting, Society of Nuclear Medicine*, Philadelphia, PA June 19 - 23, 2004.

“Striatal aromatic amino acid decarboxylase turnover in vivo in primate brain: a microPET study”, OT DeJesus, LG Flores, D Murali, AK Converse, RM Bartlett, TE Barnhart, TR Oakes, RJ Nickles, *Oral presentation at 51st Annual Meeting, Society of Nuclear Medicine*, Philadelphia, PA June 19 - 23, 2004.

“Paired [18F]FAL and [18F]FMT PET studies in timing of moderate alcohol exposure in rhesus monkeys during pregnancy”, TE Barnhart, AD Roberts, OT DeJesus, LG Flores, D Murali, R Oakes, AK Converse, DW Dick, J Mukherjee, RJ Nickles, J Larson, CF Moore, and ML Schneider, *Oral presentation at 51st Annual Meeting, Society of Nuclear Medicine*, Philadelphia, PA June 19 - 23, 2004.

“Using [F-18]FLT to assess radiotherapy response”, DW Dick, R Jeraj, LJ Forrest, MM Turek, EA Balleger, CJ Jaskowiak, TE Barnhart, TR Oakes and RJ Nickles, *Abstract accepted to SNM 2004*, Jan 6 2004.

“Prefrontal, striatal and thalamic FDG uptake in never-medicated patients with schizophrenia”, Lehrer DS, Buchsbaum MS, Christian BT, Mantil J, Murray A, Oakes T, Satter M, *Biological Psychiatry*, 55:166S 592 Suppl. 8, Apr. 15 2004.

“Improving cerebral blood flow measurements in human activation experiments with [17F]-CH3F vs. [18O]-H2O”, Roberts AD, Barnhart TE, Converse AK, Dabbs KA, Oakes TR, Nickles RJ, Stone CK, Haraldsson HA, Tononi G, *Proc. of BrainPET '03*, Calgary, Canada, June 29-July 3 2003.

“Preserving Individual Differences for Voxel-Based Morphometry”, AS Fox, TR Oakes, K Dalton, B Nacewicz, M Chung, RJ Davidson, *Poster presentation, 9th International Conference on Functional Mapping of the Human Brain*, New York, June 2003.

“Synthesis of [F-18]-ZD1839 as a PET imaging agent for epidermal growth factor receptors”, O.T. DeJesus, D. Murali, L.G. Flores, A.K. Converse, D.W. Dick, T.R. Oakes, A.D. Roberts and R.J. Nickles, *2003 Radiopharmaceutical Conference, Sydney, Australia*, 2003.

“Effect of dopamine D1 receptor inhibition on striatal aromatic L-amino acid decarboxylase activity in rhesus monkey”, OT DeJesus, L G Flores, A R Roberts, D Dick, R M Bartlett, TR Oakes, D Murali and R J Nickles. *J Nuc Med*, 44 (5): 230 Suppl. S May 2003.

“Improving cerebral blood flow measurements in human activation experiments with $^{17}\text{F-CH}_3\text{F}$ vs. $^{15}\text{O-H}_2\text{O}$ ”, Roberts AD, Barnhart TE, Converse AK, Dabbs KA, Oakes TR, Nickles RJ, Stone CK, Haraldsson HM, Tononi G, *Poster presentation, BrainPET'03*, Calgary, Canada, June 2003.

“Effects of fear on brain glucose metabolism in primates”, Shelton SE, Roberts AD, Barnhart TE, Oakes TR, Davidson RJ, Kalin NH, *Presented at the International Society of Psychoneuroendocrinology, Pisa, Italy*, March, 2003.

“In Vivo Assessment of Ibotenic Acid Amygdala Lesions in Monkeys Using MRI”, SE Shelton, TR Oakes, NH Kalin, *Poster presentation, Society for Neuroscience Annual Meeting, Orlando*, November 2002.

“Subgenual prefrontal and orbitofrontal cortex dysfunction in melancholia: Functional and structural correlates using concurrent EEG/PET measurements and voxel-based MRI morphometry analyses”, Pizzagalli DA, Chung M, Oakes TR, Davidson RJ, *Psychophysiology* 39: S66-S66 Suppl. 1, 2002.

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“Multi-Scanner PET 2D/3D Comparison with Cerebral FDG”, TR Oakes, BT Christian, AD Roberts, RW Pyzalski, JE Holden, T Brown, WD Brown, RJ Nickles, RJ Davidson, *Poster presentation at 2001 IEEE Nuclear Science Symposium and Medical Imaging Conference, San Diego*, Nov. 4-10, 2001.

“Addressing the third gamma problem in PET”, MJ Schueller, TL Mulnix, BT Christian, M Jenson, S Holm, TR Oakes, CC Martin, AD Roberts, D Dicks, RJ Nickles, *IEEE Trans. Nucl. Sci.* 50 (1): 50-52 Part 1, Feb. 2 2001

“Simultaneous FDG-PET/EEG recording reveals an association between anterior cingulate theta activity and degree of treatment response in major depression”, Pizzagalli D, Oakes TR, Horras KA, Hendrick AM, and Davidson RJ, *Brain Topography*, in press. [Oral presentation at the 12th World Congress of the International Society for Brain Electromagnetic Topography (ISBET), March 8 -10, 2001, Utsunomiya, Japan].

“Interhemispheric amygdalar connectivity in the human brain”, Irwin W, Anderle MJ, Abercrombie HC, Schaefer SM, Oakes TR, Kalin NH, Davidson RJ, *Society for Neuroscience Abstracts*, 27:525.15, 2001.

“Simultaneous FDG-PET and 3D tomographic EEG in resting brain”, TR Oakes, D Pizzagalli, AM Hendrick, KA Horras, CL Larson, HC Abercrombie, SM Schaefer, JV Koger, RJ Davidson, *NeuroImage* 13:S36, 2001.

“Motherly Love: An fMRI study of mothers viewing pictures of their infants”, Nelson EE, Nitschke JB, Rusch BD, Oakes TR, Anderle MJ, Ferber KL, Pederson AJC, Davidson RJ, *NeuroImage*, 13(6):S450, 2001.

“Visual activation using F-17-fluoromethane in rhesus monkey”, Dabbs KA, Converse AK, Barnhart TE, Dick DW, Larson J, Nickles RJ, Oakes TR, Schneider ML, Schueller MJ, Shelton SE, Roberts AD, *J. Nucl. Med.*, 42 (5): 934 Suppl. S May 2001.

“Brain electrical correlates of depression derived from a new source localization method.”, Pizzagalli D, Nitschke JB, Pascual-Marqui RD, Larson CL, Abercrombie HC, Schaefer SM, Oakes TR, Koger JV, Benca RM and Davidson RJ, *Poster presented at the 15th Annual Meeting of the Society for Research in Psychopathology, Boulder, CO*, November 30 – December 3, 2000.

“Hemispheric asymmetry of verbal and spatial working memory in prefrontal cortex”, AJ Shackman, HA Slagter, A Lavric, W Irwin, I Sarinopoulos, TR Oakes, RJ Davidson, *Poster presented at Society for Neuroscience annual meeting, New Orleans, Nov. 4-9 2000*.

“Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis.”, Pizzagalli D, Nitschke JB, Pascual-Marqui RD, Larson CL, Oakes TR, Abercrombie HC, Schaefer SM, Koger JV, Benca RM and Davidson RJ. *Psychophysiology*, 37, S79 [Poster at the 40th Annual Meeting of the Society for Psychophysiological Research, October 18-22, 2000, San Diego, CA, USA], 2000.

“Control of angular undersampling artifacts in projection-based MR angiography by iterative reconstruction”, JE Holden, O Unal, DC Peters, TR Oakes, *Oral presentation, Proc. IIX Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Denver, CO, April 1-7 2000.*

“Effect of Axial Resolution on PET image data: 2D vs. 3D”, TR Oakes, JE Holden, RW Pyzalski, WD Brown, RJ Davidson, *IEEE Nuclear Science Symposium and Medical Imaging Conference Record*, 3:1176-81, 1999.

“Roles of amygdala, and frontal and posterior cortices in human affective processes: hemispheric symmetries and asymmetries”, W Irwin, MJ Anderle, BJ Mock, SK Sutton, PA Turski, NH Kalin, TR Oakes, RJ Davidson, *Society for Neuroscience Abstracts*, 25:2146, 1999.

“Regional metabolic rate before and after treatment in major depressive disorder”, HC Abercrombie, SM Schaefer, CL Larson, TR Oakes, BD Rusch, KA Lindgren, JE Holden, SB Perlman, DD Krahn, RM Benca, RJ Davidson, *Psychophysiology* 36, S24, 1999.

“Greater metabolism in the basal ganglia of non-melancholic depressives compared to both melancholic depressives and normals”, SM Schaefer, HC Abercrombie, CL Larson, KA Lindgren, TR Oakes, JE Holden, SB Perlman, RJ Davidson, *Psychophysiology* 36, S103, 1999.

“Automated whole-brain segmentation”, TR Oakes, JV Koger, RJ Davidson, *Proc. 5th Int. Conference on Functional Mapping of Human Brain, Dusseldorf, Germany, June 1999.*

“Further evidence for cingulate function as a predictor of treatment response in depression”, HC Abercrombie, SM Schaefer, CL Larson, TR Oakes, JE Holden, SB Perlman, RM Benca, DD Krahn, RJ Davidson, *NeuroImage*, 9:S367, 1999.

“A positron plane-source which approaches the limit of ‘low-scatter’ ”, TR Oakes, T Hurtado, S Jivan, K Buckley, V Sossi, TJ Ruth, *J. Nucl. Med.*, 39(5):783 (Supplement), 1998.

“Individual differences in prefrontal metabolic rate and dispositional positive affect in depressed patients”, Abercrombie HA, Schaefer SM, Larson CL, Lindgren KA, Putnam KM, Oakes TR, Perlman SB, Holden JE, Davidson RJ, *Psychophysiology* 35, S15, 1998.

“Positron emission tomography studies of the dopamine system in Rett syndrome”, Stoessl AJ, Dobko T, Morrison KS, Oakes T, Ho HH, Snow BJ, Poskitt KJ, Dunn HG, *Neurology*, 50 (4):(Suppl.) 4 April 1998.

“Normalization in 3D PET: Comparison of detector efficiencies obtained from uniform planar and cylindrical sources”, TR Oakes, V Sossi, and TJ Ruth, *IEEE Nuclear Science Symposium and Medical Imaging Conference Record*, 2:1625-29, 1997.

“Quantitative comparison of 3D and 2D PET with human brain studies”, V Sossi, TR Oakes, G Chan, TJ Ruth, *IEEE Nuclear Science Symposium and Medical Imaging Conference Record*, 2:1438-41, 1997.

“Quantitative 3D implementation for brain imaging: protocol and results”, V Sossi, TR Oakes, KS Morrison and TJ Ruth, *Proc. for 1997 CTI User's Meeting*, Dresden, Germany, September 1997.

“Normalization for 3D PET with a low-scatter planar source: Technique, Implementation and Validation”, TR Oakes, V Sossi, and TJ Ruth, *Proc. for 1997 Conference on Fully 3D Image Reconstruction for Radiology and Nuclear Medicine*, Pittsburgh, Pennsylvania, June 25-28 1997.

“Emission-Transmission realignment using a simultaneous emission-transmission postinjection scan”, V Sossi, KS Morrison, TR Oakes and TJ Ruth, *Proc. BrainPET '97 Conference*, Bethesda, MD, June 20-22 1997.

“Evaluation of the ICS and DEW scatter-correction methods for low-statistical content scans in 3D PET”, V Sossi, TR Oakes and TJ Ruth, *Proc. 1996 IEEE/MIC*, 1537-1541, November 1996.

“Comparison of Energy Window Choice and Parameter Implementation in Dual Energy Window Scatter Correction Performance in 3D PET”, V Sossi, JS Barney, TR Oakes, and TJ Ruth, *Proc. 1995 IEEE/MIC*, pp. 1060-1063, 1995.

"Validation of Venous Input Function in F-18-L-DOPA Quantitative PET Studies", TR Oakes, WD Brown, OT DeJesus, MD Taylor, AD Roberts, J Hanson and RJ Nickles, *J. Nucl. Med.*, 35(5 Supplement):185P, 1994.

"Enzyme Activated Trapping as a Mechanism for Developing PET Tracers of Neurotransmission", OT DeJesus, D Murali, TR Oakes, R Kitchen, JE Holden and RJ Nickles, *Xth International Symposium on Radiopharmaceutical Chemistry*, Kyoto, Japan, October 25-28, 1993.

"Revised Dosimetry for Fluoro-DOPA with Carbidopa Pretreatment", WD Brown, TR Oakes, RJ Nickles, *J. Nucl. Med.*, 34 (5 Supplement):8P, 1993.

"A New Method for the Production of Electrophilic F-18 Starting from Aqueous [F-18]", J Bergman, K-M Kallman, O Solin, OT DeJesus, TR Oakes, RJ Nickles, *J. Nucl. Med.*, 34 (5 Supplement):69P, 1993.

"Synthesis of [F-18]-Fluoro-alpha-Fluoromethyl-p-Tyrosine, a Potential PET Tracer for Tyrosine Hydroxylase Activity", D Murali, OT DeJesus, TR Oakes, R Kitchen, J Holden, RJ Nickles, *J. Nucl. Med.*, 34 (5 Supplement):157P, 1993.

"Effect of Acute Dopamine Depletion by alpha-Methyl-p-Tyrosine on PET Measurements of 6-Fluoro-DOPA Kinetics in Macaque", JE Holden, OT DeJesus, CJ Endres, RJ Nickles, WD Houser, SE Shelton, L Freund, RA Pooley, H Uno, D Murali and TR Oakes, *9th International Catecholamine Symposium*, Amsterdam, June 22-26, 1992.

"Synthesis of [F-18]F2 from [F18]F-(aq)", O Solin, K Aho, J Bergman, KM Kallman and TR Oakes, *IX International Symposium on Radiopharmaceutical Chemistry*, Paris, April 6-10, 1992.

"Synthesis of [F-18]-Labelled alpha-Fluoromethyl-p-Tyrosine, a Tyrosine Hydroxylase-Activated Decarboxylase Suicide Inhibitor with Potential as Imaging Agent for Dopamine Nerve Terminals", OT DeJesus, D Murali, TR Oakes, JE Holden, RJ Nickles, *IX International Symposium on Radiopharmaceutical Chemistry*, Paris, April 6-10, 1992.

"Small Cyclotron Production of [Cu-60]-Cu-PTSM for PET Blood Flow Measurements", CC Martin, TR Oakes, RJ Nickles, *J. Nucl. Med.*, 31 (5 Supplement):815, 1990.

Service:

NIH Center for Scientific Review Special Emphasis Panel: 2008/10 ZRG1 BST-E (50) R – “Collaborations with NCBCs”, July 16, 2008.

NIH Center for Scientific Review Special Emphasis Panel: 2008/05 ZRG1 MDCN-G (50) R meeting, “Neuroimaging Informatics Software Enhancement”, 02/06/2008-02/07/2008.

Kromrey Middle School, Middleton, WI- Lecture for 7th grade Science class (4 sections) “How a PET Physicist Uses Chemistry at Work”, Nov. 27, 2007.

NIH Center for Scientific Review Special Emphasis Panel: 2008/01 ZRG1 BST-E (51) R – “Collaborations with NCBCs”, 10/29/2007-10/30/2007.

NIH Center for Scientific Review Special Emphasis Panel: 2008/01 ZRG1 BST-E (50) R – “Collaborations with NCBCs”, 09/11/2007-09/12/2007.

NIH Center for Scientific Review Special Emphasis Panel: 2007/10 ZNS1 SRB-G (17) – “Blueprint-Neuroimaging Informatics Software Enhancement”, 07/13/2007-07/13/2007.

NIH Center for Scientific Review Special Emphasis Panel: ZRG1 MDCN-K(51) “Human Brain Project / BISTP”, June 21, 2006.

NIH Center for Scientific Review Special Emphasis Panel: MDCN-K(55) “Human Brain Project / BISTP”, June 22, 2005.

NIH Center for Scientific Review Special Emphasis Panel: MDCN-G(55) “Human Brain Project / BISTP”, September 23-24, 2004.

NIH Center for Scientific Review Special Emphasis Panel: ZRG1 MDCN-G (55) “Human Brain Project/Neuroinformatics”, telephone reviewer, May 26 2004.

University of Wisconsin Safety Department Review Panel, January 13, 2004.

Radioactive Drug Research Committee (RDRC) at UW-Madison, Alternate member, 2003-present.

NIH National Institute of Biomedical Imaging & Bioengineering (NIBI) special emphasis review panel ZRG1 EB 52, “Systems and Methods for Small Animal Imaging”, July 8-9, 2003.

Small Animal microPET User’s Committee for Waisman Lab for Functional Brain Imaging microPET scanner, 2002-present.

PET User’s Committee for Waisman Lab for Functional Brain Imaging GE/Advance PET scanner, 2001-present.

MRI User’s Committee for Waisman Lab for Functional Brain Imaging 3.0T MRI scanner, 2001-present.

Awards:

Wyeth–Health Emotions Young Investigator Fellowship in Emotion Research (2004).

Professional Development:

“Advanced Topics in IDL”, Course on computer programming for image analysis: Boulder, CO, 2003 10/15-17.

“microPET Training Course”, a 2-day training course on how to maintain, operate and analyze data from Concorde Systems’ small-animal PET scanner. Knoxville, TN, August 21-22 2002.

“Statistical Methods for Image Reconstruction”, a short course taught at the IEEE Medical Imaging Conference, San Diego, CA, November 6, 2001.

“Functional Magnetic Resonance Imaging: An Introductory Course”, a course on Functional MRI. Medical College of Wisconsin, Milwaukee, WI, May 31, June 1-2 2001.

“Advanced Application Development with Object Graphics in IDL”, a course on computer programming for medical image analysis applications. Wright State University, Dayton, Ohio, February 8-9, 2001.

“Statistical Parametric Mapping (SPM99) and Functional Neuroimaging”, a course by the University College London’s Institute of Neurology and Wellcome Department of Cognitive Neurology, London, May 19-22, 2000.

“BrainVoyager”, a course on using a commercial software package for functional and anatomic analysis. Maastricht, the Netherlands, March 10-11 2000.

“Brain Imaging and Image Processing”, a workshop on image analysis. University of Iowa Mental Health Clinical Research Center, August 4-6 1999.

“Object Oriented and Graphics Programming in IDL”, a course on computer programming for medical image analysis applications. Wright State University, Dayton, Ohio, January 26-29 1999.

“Course Development Techniques”, a seminar designed to provide structure and philosophy for developing a new course. May Institute, University of British Columbia, Vancouver, BC, Canada, May 14 1997.

Teaching Presentations:

"How I use chemistry in my job", presentation to Middleton Kromrey 7th grade science class (4 sections), Nov. 27, 2007.

“Coregistration”, Guest Lecture for Univ. Wisconsin-Madison Dept. course: Brain Imaging, Sterling Johnson, October 16, 2007.

“Brain Imaging Workshop”, a weekly seminar focusing on various software packages used to display and analyze brain image data. See web-page at http://tezpur.keck.waisman.wisc.edu/~oakes/teaching/imaging_workshop.html Fall 2000, Spring 2001, Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004.

“Statistical Parametric Mapping”, Guest Lecture for Univ. Wisconsin-Madison Dept. of Medical Physics course: Imaging in Medicine, MP473, May 4th 2005.

“fMRI Data Analysis”, Guest Lecture for Univ. Wisconsin-Madison Dept. of ECE course on Computer Visualization, March 4, 2002.

“Coregistration”, Guest Lecture for Univ. Wisconsin-Madison Dept. of Medical Physics course: Imaging in Medicine, MP473, October 31 2001, annually or biannually thereafter.

“Analysis of Brain Functional Image Data”, Lecture for Project Kaleidoscope 2001 National Assembly, Madison, Wisconsin, October 20, 2001.

“Brain Image Analysis and Display Methods”, UW-Madison/Promega Symposium on Biological Imaging, Madison, WI, May 25 2001.

“Functional and Structural Brain Images”, a series of three short movies showing visualizations of brain imaging data, displayed at: UW Day at the Wisconsin State Capital, May 2001.

“Image Processing”, introduction to image processing methods relevant to UW-Madison Lab for Affective Neuroscience, October 1999.

“Tel/Tk Primer”, introduction to a computer scripting language for technical staff in UW-Madison Lab for Affective Neuroscience, May 1999.

Professional Meetings Attended:

2008 May ISMRM, Toronto, Canada

2007 June 11th International Conference on Functional Mapping of the Human Brain, Chicago, USA

2007 May Wisconsin Symposium on Emotion, Madison, WI

2007 March GRAPP/VISAPP: Conference on Computer Graphics/Vision Theory & Applications, Barcelona, Spain

2006 June 10th International Conference on Functional Mapping of the Human Brain, Florence, Italy

2006 May Wisconsin Symposium on Emotion, Madison, WI
 2005 June Brain05 and BrainPET, Amsterdam, Netherlands.
 2005 May Wisconsin Symposium on Emotion, Madison, WI
 2004 Oct IEEE Medical Imaging Conference, Rome, Italy.
 2004 June 10th International Conference on Functional Mapping of the Human Brain, Budapest, Hungary.
 2004 April Wisconsin Symposium on Emotion, Madison, WI
 2003 July Brain'03 and BrainPET Conferences, Calgary, Canada.
 2003 June 9th International Conference on Functional Mapping of the Human Brain, New York.
 2003 May NIFTI Grantee Meeting on Characterizing, Validating, and Comparing Neuroimaging Informatics Tools, Rockville, MD
 2003 April 2003 Wisconsin Symposium on Emotion, Madison, WI.
 2002 Oct 2002 Academy of Molecular Imaging (AMI) Annual Conference, San Diego, CA.
 2002 June 8th International Conference on Functional Mapping of the Human Brain, Sendai, Japan.
 2002 April 2002 Wisconsin Symposium on Emotion, Madison, WI.
 2001 Nov IEEE Medical Imaging Conference, San Diego, CA.
 2001 June 7th International Conference on Functional Mapping of the Human Brain, Brighton, UK.
 2001 May 9th International Mind and Life Conference, Madison, WI.
 2001 April 2001 Wisconsin Symposium on Emotion, Madison, WI.
 2000 June 6th International Conference on Functional Mapping of the Human Brain, San Antonio, TX.
 1999 Oct IEEE Medical Imaging Conference, Seattle, WA, USA.
 1999 June 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany.
 1998 Nov IEEE Medical Imaging Conference, Toronto, Canada.
 1998 June 4th International Conference on Functional Mapping of the Human Brain, Montreal, Canada.
 1998 April Affective Neuroscience: 1998 Wisconsin Symposium on Emotion, Madison, WI.
 1997 Nov IEEE Medical Imaging Conference, Albuquerque, NM.
 1997 June 3D Image Reconstruction for Radiology and Nuclear Medicine, Pittsburgh, PA.
 1997 June BrainPET'97, Bethesda, Maryland.
 1996 March CTI/ECAT User's Meeting, Stockholm, Sweden.
 1995 Nov IEEE Medical Imaging Conference, San Francisco, CA.
 1995 Sept Medical Imaging Workshop, Vancouver, Canada.
 1995 August XIth Workshop on Targetry and Target Chemistry, Vancouver, Canada.
 1995 August XIth International Symposium on Radiopharmaceutical Chemistry, Vancouver, Canada.
 1994 June Society of Nuclear Medicine Annual Meeting, Orlando, FL.
 1994 April General Electric PET User's Meeting, Milwaukee, WI.
 1994 March CTI/ECAT User's Meeting, Kohn, Germany.
 1993 Nov Radiological Society of North America (RSNA) annual meeting, Chicago.
 1993 June SNM Meeting, Toronto.
 1992 June SNM Meeting, Los Angeles.
 1991 June SNM Meeting, Cincinnati.
 1990 Nov Radiological Society of North America (RSNA) annual meeting, Chicago.
 1990 June SNM Meeting, Washington, D.C.
 1989 June SNM Meeting, St. Louis, MO.

Grants and Awards:

1R01 MH67167

9/25/02 – 7/31/05

NIH/NIMH

\$500,000.00 total direct

“Comparison of fMRI Analytic Tools”

The goal of this project is to investigate the utility and effectiveness of 7 common fMRI analysis packages.

Role: Principle Investigator