

Curriculum Vitae
Gregory McCarthy, PhD

Birthplace: Newark, New Jersey

Education:

1974 A.B. Rutgers College, New Brunswick, New Jersey
1977 A.M. University of Illinois, Champaign
1980 Ph.D. University of Illinois, Champaign (Biological Psychology)

Employment History:

2006 – Present Professor, Department of Psychology, Yale University
2006 - Present Consultant, Neuroimaging Core, VISN6 MIRECC, Durham, North Carolina
2006 – 2010 Adjunct Professor, Department of Radiology, Duke University
1998 – 2006 Professor, Departments of Radiology, Neurobiology, and Psychological and Brain Sciences, Duke University
1998 – 2006 Founding Director, The Duke-UNC Brain Imaging and Analysis Center
2004 – 2006 Founding Director, VA Mental Illness Research, Education, and Clinical Center (VISN6 MIRECC)
1994 – 2006 Senior Research Career Scientist, Department of Veterans Affairs
1992 – 1997 Associate Professor (tenured 1996), Departments of Neurosurgery and Neurology, Yale University School of Medicine
1981 – 1997 Lecturer, Department of Psychology, Yale University, New Haven, Connecticut
1995 Visiting Scientist, National Institute for Physiological Sciences, Magentoencephalography Laboratory, Okazaki, Japan (January – March)
1980 – 1994 Research Psychologist, Neuropsychology Laboratory, VA Medical Center, West Haven, CT
1988 – 1992 Assistant Professor, Departments of Surgery (Neurosurgery) and Neurology, Yale University School of Medicine, New Haven, CT
1984 – 1988 Associate Research Scientist, Department of Neurology, Yale University School of Medicine, New Haven, CT
1984 Honorary Visiting Scientist, Institute of Neurology, National Hospital, Queen Square, London (April – July)
1980 – 1984 Research Affiliate, Department of Neurology, Yale University School of Medicine, New Haven, CT
1974 – 1979 Teaching and Research Assistant, Department of Psychology, University Of Illinois, Champaign, IL

Professional Honors and Recognition:

1973 – 1974 Henry Rutgers Scholar, Rutgers College, New Brunswick, NJ
1974 Graduated with Highest Honors, Rutgers University
1974 Highest Distinction in Psychology, Rutgers College
1976 – 1977 University of Illinois Fellowship
1995 Fellowship from the Japan Society for the Promotion of Science
1995 Visiting Professor, Departments of Neurology and Radiology, Mayo Clinic, Rochester MN (August 28-29)

1997 Co-Director, James McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth College (June 30 – July 12)
 2000 Inaugural Primedica Lecturer, Behavioral Toxicology Society
 2009 Fellow, American Psychological Society

National and International Professional Committees and Associations:

Current Editorial Board, *Human Brain Mapping*
 Current Review Editor, *Frontiers in Human Neuroscience*
 Current Member, Society for Neuroscience
 Current Member, American Psychological Society
 2006-2009 Chair, Cognitive Working Group for the fMRI Biomedical Informatics Research Network (fBIRN – a NIH/NCRR funded research consortium).
 2003-2004 Chair, VA Mental Health and Behavioral Science Review Panel
 2002 Ad-Hoc Member, NIMH Board of Scientific Counselors (November 17-18)
 2002 Chair, NIH Center for Scientific Review Special Emphasis Panel Site Visit - Los Angeles, CA, (January 20-22)
 2001-2003 Member, VA Mental Health and Behavioral Science Review Panel
 2001 Member, NIH Special Study Section (September 11)
 2001 Member, NIH Special Emphasis Panel (April 11)
 2000 Member, NINDS Special Review Panel (August 31)
 2000-2003 Editorial Board, *Brain and Mind*
 1999 Chairman, NIH Special Study Section (June 12-13)
 1999-2002 Editorial Board, *Neuropsychologia*
 1998 Member, NIMH Internal Protocol Review Panel (December 3-4)
 1998 Ad-Hoc Member, NIMH Board of Scientific Counselors (October 20-21)
 1998 Scientific Program Committee, Fourth International Conference on Functional Mapping of the Human Brain, Montreal
 1997 Ad-Hoc Member, NIH Board of Scientific Counselors (March)
 1997 Scientific Advisory Board, Third International Conference on Functional Mapping of the Human Brain, Copenhagen
 1996 Scientific Advisory Board, Second International Conference on Functional Mapping of the Human Brain, Boston
 1994 Organizing Committee, Magnetic Resonance Techniques and Epilepsy Research International Workshop
 1991 – 1995 Member NIH Reviewer's Reserve
 1987 – 1991 Member NIH Neurology A Study Section
 1986 – 1987 Member NIH SBIR Special Study Sections (December, March)
 1984 – 1987 Ad-Hoc Member NIH Neurology A Study Section
 1982 Ad-Hoc Member NIH Neurobiology Study Section (June)

Local University Committees

2012 Search Committee, Trumbull Master, Yale University
 2008 – 2012 Tenure and Promotions Committee, Yale University
 2008 – 2012 Social Sciences Advisory Committee, Yale University
 2007 Human Subjects Committee, Yale University
 1999 – 2006 Executive Committee, Duke University School of Medicine
 1999 – 2006 Chairman, Research and Development Committee, Department of Veterans Affairs Medical Center, Durham, NC

1999	Search Committee Chairman, VA Assistant Chief of Staff for Research
1998 – 1999	Member, Research and Development Committee, Department of Veterans Affairs Medical Center, Durham, NC
2002 – 2006	Information Technology Advisory Council, Duke University
1994 – 1997	Animal Research Review Committee, Department of Veterans Affairs Medical Center, West Haven, CT
1994 – 1997	Yale Animal Care and Use Committee, Yale University, New Haven, CT

ACTIVE GRANT SUPPORT

NIMH R01 MH05286-45 (PI: Gregory McCarthy) “Social Brain Networks for the Detection of Agents and Intentions”, July 2011-March 2016, Annual direct costs \$250,000.

RECENTLY COMPLETED GRANT SUPPORT

NINDS PO1 NS41328-10 (Duke PD: Allen Song, Project 4 PI: Gregory McCarthy) “Human Functional Brain Anatomy”, August 2006 - August 2011.

NIMH P01 MH60451-10 (Duke PD: Ranga Krishnan, Yale subcontract PI: Gregory McCarthy) “Conte Center for the Neuroscience of Depression”, July 2006 - July 2011.

NCRR U24 RR021992 (UC Irvine PD: Steven Potkin, Yale Project PI: Gregory McCarthy) “The Function Biomedical Informatics Research Network”, Dec 2005 – Nov 2011.

Books:

1. Huettel, S.A., Song, A.W., and McCarthy, G. (2004). *Functional Magnetic Resonance Imaging*. Sunderland, Massachusetts: Sinauer Associates.
2. Huettel, S.A., Song, A.W., and McCarthy, G. (2009). *Functional Magnetic Resonance Imaging* (2nd Edition). Sunderland, Massachusetts: Sinauer Associates.

Publications:

1. Kutas, M., McCarthy, G. and Donchin, E. (1975) Differences Between Sinistrals' and Dextrals' Ability to Infer a Whole from its Parts: A Failure To Replicate. *Neuropsychologia*, 13: 455-464.
2. McCarthy, G. and Donchin, E. (1976) The Effects of Temporal and Event Uncertainty in Determining the Waveform of the Auditory Event-Related Potential (ERP). *Psychophysiology*, 13: 581-590.
3. Wickens, C., Israel, J., McCarthy, G., Gopher, D. and Donchin, E. (1976) The Use of Event-Related Potentials in the Enhancement of System Performance. Proceedings of the 12th Annual Conference on Manual Control. NASA, TM X 73, 170, U.S. Government Printing Office.
4. Squires, K., Donchin, E., Herning, R. and McCarthy, G. (1977) On the Influence of Task Relevance and Stimulus Probability on ERP Components. *Electroencephalography and Clinical Neurophysiology*, 42: 1-14.
5. Kutas, M., McCarthy, G. and Donchin, E. (1977) Augmenting Mental Chronometry: The P300 as a Measure of Stimulus Evaluation Time. *Science*, 197: 792-795.
6. Donchin, E., McCarthy, G. and Kutas, M. (1977) Electroencephalographic Investigations of Hemispheric Specialization. In J.E. Desmedt (Ed.), *Language and Hemispheric Specialization in Man: Cerebral ERPs*. Progress in Clinical Neurophysiology, Vol. 3. Basel: Karger, pp. 212-242.

7. Donchin, E., Kutas, M. and McCarthy, G. (1977) Electrical Indices of Hemispheric Utilization. In S. Harnard, R. Doty, L. Goldstein, J. Javnes and G. Krauthamer (Eds.), *Lateralization in the Nervous System*. New York: Academic Press, pp. 339-384.
8. McCarthy, G. and Donchin, E. (1978) Brain Potentials Associated with Structural and Functional Visual Matching. *Neuropsychologia*, 16: 571-585.
9. Beatty, J., Callaway, E., McCarthy, G. and Thatcher, R. (1978) Neuropsychology and Neurophysiology of Cognition. Proceedings of the 11th Annual Winter Conference on Brain Research. Brain Information Service, BRI Publications, UCLA, pp. 58-61.
10. McCarthy, G. and Donchin, E. (1979) Event-Related Brain Potentials: Manifestations of Cognitive Activity. In F. Hoffmeister and C. Mueller (Eds.), *Bayer Symposium VII. Old Age Related Changes in the Brain*. New York: Springer-Verlag.
11. McCarthy, G. and Donchin, E. (1980) Event-Related Brain Potentials in the Study of Cognitive Processes. In C.L. Ludlow and M.E. Doran-Quine (Eds.), *Neurological Bases of Language in Children: Methods and Directions for Research*. NINCDS Monograph, Washington, D.C.: U.S. Government Printing Office.
12. McCarthy, G. and Donchin, E. (1981) A Metric for Thought: A Comparison of P300 Latency and Reaction Time. *Science*, 211: 77-80.
13. Bashore, T.R., McCarthy, G., Heffley, E.F. III, Clapman, R.M. and Donchin, E. (1982) Is Handwriting Posture Associated with Differences in Motor Control? An Analysis of Symmetries in the Readiness Potential. *Neuropsychologia*, 20: 327-346.
14. Allison, T., Wood, C.C., McCarthy, G., Hume, A.L. and Goff, W.R. (1982) Short-Latency Somatosensory Evoked Potentials in Man, Monkey, Cat and Rat: Comparative Latency Analysis. In J. Courjon, F. Mauguere and M. Revol (Eds.), *Advances in Neurology Vol. 32: Clinical Applications of Evoked Potentials in Neurology*. New York: Raven Press, pp. 303-311.
15. Donchin, E., McCarthy, G., Kutas, M. and Ritter, W. (1983) Event Related Potentials in the Study of Consciousness. In R.J. Davidson, G.E. Schwartz and D. Shapiro (Eds.), *Consciousness and Self Regulation, Vol. III*. New York: Plenum Press, pp. 81-121.
16. Polich, J.M., McCarthy, G., Wong, W.S. and Donchin, E. (1983) When Words Collide: Orthographic and Phonological Interference during Word Processing. *Biological Psychology*, 16: 155-180.
17. McCarthy, G. and Donchin, E. (1983) Chronometric Analysis of Human Information Processing. In A.W.K. Gaillard and W. Ritter (Eds.), *Advances in Psychology, Volume 10, Tutorials in Event Related Potential Research: Endogenous Potentials*. Amsterdam: North Holland, pp. 251-168.
18. Wood, C.C., McCarthy, G., Squires, N.K., Vaughan, H.G., Woods, D.L. and McCallum, W.C. (1984) Anatomical and Physiological Substrates of Event-Related Potentials: Two Case Studies. *Annals of the New York Academy of Sciences*, 425: 681-721.
19. Wood, C.C. and McCarthy, G. (1984) Principal Component Analysis of Event-Related Potentials: Simulation Studies Demonstrate Misallocation of Variance Across Components. *Electroencephalography and Clinical Neurophysiology*, 59: 249-260.
20. Bentin, S., McCarthy, G. and Wood, C.C. (1985) Event-Related Potentials, Lexical Decision and Semantic Priming. *Electroencephalography and Clinical Neurophysiology*, 60: 343-355.
21. McCarthy, G. and Wood, C.C. (1985) Scalp Distributions of Event-Related Potentials: An Ambiguity Associated with Analysis of Variance Models. *Electroencephalography and Clinical Neurophysiology*, 63: 203-208.

22. Bentin, S., McCarthy, G. and Wood, C.C. (1985) Event-Related Potentials During Lexical Access and Antonym Processing. In W.C. McCallum, R. Zappoli and F. Denoth (Eds.), *Proceedings of the Seventh International Congress on Event Related Potentials*. Amsterdam: Elsevier.
23. Allison, T., Wood, C.C. and McCarthy, G. (1986) The Central Nervous System. In E. Donchin, S. Porges and M. Coles (Eds.), *Psychophysiology: Systems, Processes and Applications: A Handbook*. New York: Guilford Press, pp. 5-25.
24. McCarthy, G., Darcey, T.M., Wood, C.C., Williamson, P.D. and Spencer, D.D. (1987) Asymmetries in Scalp and Intracranial Endogenous ERPs in Patients with Complex Partial Epilepsy. In J. Engel, Jr., G.A. Ojemann, H.O. Lüders and P.D. Williamson (Eds.), *Fundamental Mechanisms of Human Brain Function*. New York: Raven Press, pp. 51-59.
25. McCarthy, G. and Wood, C.C. (1987) Intracranial Recordings of Endogenous ERPs in Humans. In R.J. Ellingson, N.M.F. Murray and A.M. Halliday (Eds.), *The London Symposia, EEG Supplement 39*. London: Elsevier, pp. 331-337.
26. Wood, C.C., Spencer, D.D., Allison, T., McCarthy, G., Williamson, P.D. and Goff, W.R. (1988) Localization of Human Sensorimotor Cortex During Surgery by Cortical Surface Recordings of Somatosensory Evoked Potentials. *Journal of Neurosurgery*, 68:99-111.
27. Paller, K.A., McCarthy, G. and Wood, C.C. (1988) ERPs Predictive of Subsequent Recall and Recognition Performance. *Biological Psychology*, 26: 269-276.
28. Allison, T., McCarthy, G., Wood, C.C., Darcey, T.M., Spencer, D.D. and Williamson, P.D. (1989) Human Cortical Potentials Evoked by Stimulation of the Median Nerve. I. Cytoarchitectonic areas generating short-latency activity. *Journal of Neurophysiology*, 62: 694-710.
29. Allison, T., McCarthy, G., Wood, C.C., Williamson, P.D. and Spencer, D.D. (1989) Human Cortical Potentials Evoked by Stimulation of the Median Nerve. II. Cytoarchitectonic areas generating long-latency activity. *Journal of Neurophysiology*, 62: 711-722.
30. McCarthy, G., Wood, C.C., Williamson, P.D. and Spencer, D.D. (1989) Task-Dependent Field Potentials in Human Hippocampal Formation. *Journal of Neuroscience*, 9: 4253-4268.
31. Jones, T.W., McCarthy, G., Tamborlane, W.V., Caprio, S., Roessler, E., Kraemer, D., Zych, K., Allison, T., Boulware, S. and Sherwin, R.S. (1990) Mild Hypoglycemia Alters Brainstem and Cortical Evoked Potentials in Normal Subjects. *Diabetes*, 39: 1550-1555.
32. McCarthy, G., Wood, C.C. and Allison, T. (1991) Cortical Somatosensory Evoked Potentials: I. Recordings in the Monkey *Macaca Fascicularis*. *Journal of Neurophysiology*, 66: 53-61.
33. Allison, T., Wood, C.C., McCarthy, G. and Spencer, D.D. (1991) Cortical Somatosensory Evoked Potentials: II. Effects of Excision of Somatosensory or Motor Cortex in Humans and Monkeys. *Journal of Neurophysiology*, 66: 64-82.
34. Allison, T., McCarthy, G., Wood, C.C. and Jones, S.J. (1991) Potentials Evoked in Human and Monkey Cerebral Cortex by Stimulation of the Median Nerve: A Review of Scalp and Intracranial Recordings. *Brain*, 114: 2465-2503.
35. Katz, A., Marks, D.A., McCarthy, G. and Spencer, S.S. (1991) Does Interictal Spiking Change Prior to Seizures? *Electroencephalography and Clinical Neurophysiology*, 79: 153-156.
36. Fried, I., Katz, A., McCarthy, G., Sass, K.J., Williamson, P., Spencer, S.S. and Spencer, D.D. (1991) Functional Organization of Human Supplementary Motor Cortex Studied by Electrical Stimulation. *Journal of Neuroscience*, 11: 3656-3666.
37. Bronen, R.A., Cheung, G., Charles, J.T., Kim, J.H., Spencer, D.D., Spencer, S.S., Sze, G., and McCarthy, G. (1991) Imaging Findings in Hippocampal Sclerosis: Correlation with Pathology. *American Journal of Neuroradiology*, 12: 933-940.

38. McCarthy, G., Spencer, D.D. and Riker, R.J. (1991) The Stereotaxic Placement of Depth Electrodes in Epilepsy. In H. Lüders (ed.), *Surgery of Epilepsy*. Raven Press, New York.
39. Paller, K.A., McCarthy, G. and Wood, C.C. (1992) Event-Related Potentials Elicited by Deviant Endings to Melodies. *Psychophysiology*, 29: 202-206.
40. Jones, S., Allison, T., McCarthy, G. and Wood, C.C. (1992) Tactile Interference Differentiates Sub-Components of N20, P20 and P29 in the Human Cortical Surface Somatosensory Evoked Potential. *Electroencephalography and Clinical Neurophysiology*, 82: 125-132.
41. Paller, K.A., McCarthy, G., Roessler, E., Allison, T. and Wood, C.C. (1992) Potentials Evoked in Human and Monkey Medial Temporal Lobe During Auditory and Visual Oddball Paradigms. *Electroencephalography and Clinical Neurophysiology*, 84: 269-279.
42. Blamire, A.M., Ogawa, S., Ugurbil, K., Rothman, D., McCarthy, G., Ellermann, J.M., Hyder, F., Rattner, Z. and Shulman, R.G. (1992) Dynamic Mapping of the Human Visual Cortex by High Speed Magnetic Resonance Imaging. *Proceedings of the National Academy of Sciences*, 89: 11069-11073.
43. Lencz, T., McCarthy, G., Bronen, R.A., Scott, T.M., Insermi, J.A., Sass, K.J., Novelly, R.A., Kim, J.H. and Spencer, D.D. (1992) Quantitative Magnetic Resonance Imaging in Temporal Lobe Epilepsy: Relationship to Neuropathology and Neuropsychological Function, *Annals of Neurology*, 31: 629-637.
44. Allison, T., McCarthy, G. and Wood, C.C. (1992) The Relationship Between Human Long Latency Somatosensory Evoked Potentials Recorded from the Cortical Surface and from the Scalp. *Electroencephalography and Clinical Neurophysiology*, 84: 301-314.
45. Bremner, J.D., Scott, T.M., Delaney, R.C., Southwick, S.M., Mason, J.W., Johnson, D.R., Innis, R.B., McCarthy, G. and Charney, D.S. (1993) Deficits in Short-term Memory in Posttraumatic Stress Disorder. *American Journal of Psychiatry*, 150: 1015-1019.
46. Merriam, M.A., Bronen, R.A., Spencer, D.D. and McCarthy, G. (1993) MR Image Findings Following Depth Electrode Implantation for Medically Refractory Epilepsy. *American Journal of Neuroradiology*, 14: 1343-1346.
47. McCarthy, G. and Nobre, A.C. (1993) Modulation of Semantic Processing by Spatial Selective Attention. *Electroencephalography and Clinical Neurophysiology*, 88: 210-219.
48. Spencer, S., McCarthy, G. and Spencer, D.D. (1993) Diagnosis of Medial Temporal Lobe Epilepsy: Relative Specificity and Sensitivity of Quantitative MRI. *Neurology*, 43: 2117-2123.
49. Shulman, R.G., Blamire, A.M., Rothman, D.L. and McCarthy, G. (1993) Nuclear Magnetic Resonance Imaging and Spectroscopy of Human Brain Function. *Proceedings of the National Academy of Science*, 90: 3127-3133.
50. Malison, R.T., Miller, E.G., Greene, R., McCarthy, G., Charney, D.S. and Innis, R.B. (1993) Computer-Assisted Coregistration of Multislice SPECT and MR Brain Images by Fixed External Fiducials. *Journal of Computer Assisted Tomography*, 17: 952-960.
51. Constable, R.T., McCarthy, G., Allison, T., Anderson, A.W. and Gore, J.C. (1993) Functional Brain Imaging at 1.5T Using Conventional Gradient Echo MR Imaging Techniques. *Magnetic Resonance Imaging*, 11: 451-459.
52. Allison, T., Begleiter, A., McCarthy, G., Roessler, E., Nobre, A.C. and Spencer, D.D. (1993) Electrophysiological Studies of Color Processing in Human Visual Cortex. *Electroencephalography and Clinical Neurophysiology*, 88: 343-355.
53. McCarthy, G., Blamire, A.M., Rothman, D.L., Gruetter, R. and Shulman, R.G. (1993) Echo-Planar MRI Studies of Frontal Cortex Activation During Word Generation in Humans. *Proceedings of the National Academy of Science*, 90: 4952-4956.

54. Kuzniecky, R.I., Cascino, G.D., Palmieri, A., Jack Jr., C.R., Berkovic, S.F., Jackson, G. and McCarthy, G. (1993) Structural Neuroimaging. In Engel Jr., J. (Ed.) *Surgical Treatment of the Epilepsies*. Raven Press, New York.
55. McCarthy, G., Allison, T., Spencer, D.D. (1993) Localization of Face Area of Human Sensorimotor Cortex by Intracranial Recording of Somatosensory Evoked Potentials. *Journal of Neurosurgery*, 79: 874-884.
56. Bentin, S. and McCarthy, G. (1994) The Effect of Immediate Stimulus Repetition on Reaction Time and Event-Related Potentials in Different Tasks. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 20: 130-149.
57. Allison, T., Ginter, H., McCarthy, G., Nobre, A.C., Puce, A., Luby, M. and Spencer, D.D. (1994) Face Recognition in Human Extrastriate Cortex. *Journal of Neurophysiology*, 71: 821-825.
58. Constable, R. T., Kennan, R.P., Puce, A., McCarthy, G. and Gore, J.C. (1994) Functional NMR Imaging Using Fast Spin Echo at 1.5T. *Magnetic Resonance in Medicine*, 31: 1-6.
59. Nobre, A.C. and McCarthy, G. (1994) Language-Related ERPs: Scalp Distributions And Modulation by Word Type and Semantic Priming. *Journal of Cognitive Neuroscience*, 6: 233-255.
60. McCarthy, G. and Luby, M. (1994) Structural Imaging of the Temporal Lobe in Epilepsy. *Clinical Neurosciences*, 2: 82-88.
61. Allison, T., McCarthy, G., Nobre, A.C., Puce, A. and Belger, A. (1994) Human Extrastriate Visual Cortex and the Perception of Faces, Words, Numbers and Colors. *Cerebral Cortex*, 5: 544-554.
62. McCarthy, G., Blamire, A.M., Puce, A., Nobre, A.C., Bloch, G., Hyder, F., Goldman-Rakic, P. and Shulman, R.G. (1994) Functional MR Imaging of Human Prefrontal Cortex Activation During a Spatial Working Memory Task. *Proceedings of the National Academy of Science*, 91: 8690-8694.
63. Nobre, A.C., Allison, T. and McCarthy, G. (1994) Word Recognition in the Human Inferior Temporal Lobe. *Nature*, 372: 260-263.
64. McCarthy, G., Nobre, A.C., Bentin, S. and Spencer, D.D. (1995) Language-Related Field Potentials in the Anterior-Medial Temporal Lobe. *Journal of Neuroscience*, 15:1080-1089.
65. Nobre, A.C. and McCarthy, G. (1995) Language-Related Field Potentials in the Anterior-Medial Temporal Lobe: Effects of Word-Type and Semantic Priming. *Journal of Neuroscience*, 15: 1090-1098.
66. Jones, T.W., Borg, W.P., Boulwae, S.D., McCarthy, G., Sherwin, R.S. and Tamborlane, W.V. (1995) Enhanced Adrenomedullary Response and Increased Susceptibility to Neuroglycopenia: Mechanisms Underlying the Adverse Effect of Sugar Ingestion in Healthy Children. *Journal of Pediatrics*, 126: 171-177.
67. McCarthy, G. (1995) Functional neuroimaging studies of memory. *The Neuroscientist*, 1: 155-163.
68. Puce, A., Constable, T.C., Luby, M.E., McCarthy, G., Nobre, A.C., Spencer, D.D., Gore, J.C. and Allison, T. (1995) Functional Magnetic Resonance Imaging of Sensory and Motor Cortex: Correlation with Electrophysiological Methods, *Journal of Neurosurgery*, 83: 262-270.
69. McCarthy, G. and Allison, T. (1995) Trigeminal Evoked Potentials in the Monkey Macaca Mulatta. *Journal of Neurosurgery*, 82: 1015-1020.
70. McCarthy, G., Spicer, M., Adrignolo, A., Luby, M., Gore, J. and Allison, T. (1995) Brain Activation Associated with Visual Motion Studied by Functional Magnetic Resonance Imaging in Humans. *Human Brain Mapping*, 2: 234-243.

71. Bremner, J.D., Seibyl, J.P., Scott, T.M., Southwick, S.M., Delaney, R.C., Mason, J.W., Scanley, E., McCarthy, G., Charney, D.S. and Innis, R.B. (1995) Decreased Hippocampal Volume in Posttraumatic Stress Disorder. *Archives of General Psychiatry*, 152, 7: 973-981.
72. Bremner JD. Randall P. Scott TM. Capelli S. Delaney R. McCarthy G. Charney DS. (1995) Deficits in Short-Term Memory in Adult Survivors of Childhood Abuse. *Psychiatry Research*, 59(1-2): 97-107.
73. Jack CR Jr. Theodore WH. Cook M. McCarthy G. (1995) MRI-Based Hippocampal Volumetrics: Data Acquisition, Normal Ranges, and Optimal Protocol. *Magnetic Resonance Imaging*, 13(8): 1057-64.
74. Puce, A., Allison, T., Gore, J.C. and McCarthy, G. (1995) Face Perception in Extrastriate Cortex Studied by Functional MRI. *Journal of Neurophysiology*, 74: 1192-1199.
75. King, D., Spencer, S., McCarthy, G., Luby, M. and Spencer, D. (1995) Bilateral Hippocampal Atrophy in Medial Temporal Lobe Epilepsy. *Epilepsia*, 36: 905-910.
76. Bremner, J.D., Randall, P., Scott, T.M., Bronen, R.A., Seibyl, J.P., Southwick, S.M., Delaney, R.C., McCarthy, G., Charney, D.S., and Innis, R.B. (1995) MRI-Based Measurement of Hippocampal Volume in Patients with Combat-Related Posttraumatic Stress Disorder. *American Journal of Psychiatry*, 152: 973-981.
77. Luby, M., Spencer, D.D., Kim, J.H., deLanerolle, N., and McCarthy, G. (1995) Hippocampal MRI Volumetric and Temporal Lobe Substrates in Medial Temporal Lobe Epilepsy. *Magnetic Resonance Imaging*, 13: 1065-1071.
78. Bentin, S., Allison, T., Puce, A., Perez, A. and McCarthy, G. (1996) Electrophysiological Studies of Face Perception in Humans. *Journal of Cognitive Neuroscience*, 8: 551-565.
79. McCarthy, G., Puce, A., Constable, R.T., Krystal, J.H., Gore, J.C. and Goldman-Rakic, P. (1996) Activation of Human Prefrontal Cortex During Spatial and Object Working Memory Tasks Measured by Functional MRI. *Cerebral Cortex*, 6: 600-611.
80. Allison, T., McCarthy, G., Luby, M., Puce, A. and Spencer, D.D. (1996) Localization of Functional Regions of Human Mesial Cortex by Somatosensory Evoked Potential Recording and by Cortical Stimulation. *Electroencephalography and Clinical Neurophysiology*, 100: 126-140.
81. McCarthy, G., Puce, A., Luby, M., Belger, A., and Allison, T. (1996) Magnetic Resonance Imaging Studies of Functional Brain Activation: Analysis and Interpretation. *Electroencephalography and Clinical Neurophysiology* (Supplement 47), 15-31.
82. Puce, A., Allison, T., Asgari, M., Gore, J.C., and McCarthy, G. (1996) Differential Sensitivity of Human Visual Cortex to Faces, Letterstrings, and Textures: A Functional MRI Study. *Journal of Neuroscience*, 16: 5205-5215.
83. McCarthy, G., Luby, M., Gore, J.C. and Goldman-Rakic, P. (1997) Infrequent Events Transiently Activate Human Prefrontal and Parietal Cortex as Measured by Functional MRI, *Journal of Neurophysiology*, 77: 1630-1634.
84. Bremner, J.D., Randall, P., Vermetten, E., Staib, L., Bronen, R.A., Mazure, C., Capelli, S., McCarthy, G., Innis, R.B. and Charney, D.S. (1997) Magnetic Resonance Imaging-Based Measurement of Hippocampal Volume in Posttraumatic Stress Disorder Related to Childhood Physical and Sexual Abuse - A Preliminary Report, *Biological Psychiatry*, 41: 23-32.
85. McCarthy, G., Puce, A., Nobre, A., Bentin, S. and Allison, T. (1997) Neurophysiological and Neuroimaging Studies of Face and Letterstring Perception in Humans. IAS Reports No. 1994-004. Concept Formation, Thinking and Their Development. Masao Ito, Chairman. International Institute for Advanced Studies, Kyoto, Japan. 85-117.

86. Puce, A., Allison, T., Spencer, S.S., Spencer, D.D. and McCarthy, G. (1997) A Comparison of Cortical Activation Evoked by Faces Measured by Intracranial Field Potentials and Functional MRI: Two Case Studies, *Human Brain Mapping*, 5: 298-305.
87. Jones, T.W., Borg, W.P., Borg, M.A., Boulware, S.D., McCarthy, G., Silver, D., Tamborlane, W.V. and Sherwin, R.S. (1997) Resistance to Neuroglycopenia: An Adaptative Response During Intensive Insulin Treatment of Diabetes, *Journal of Clinical Endocrinology and Metabolism*, 82: 1713-1718.
88. Schlosser, M.J., McCarthy, G., Fulbright, R.K., Awad, I.A. and Gore, J.C. (1997) Cerebral Vascular Malformations Adjacent to Sensorimotor and Visual Cortex: Functional Magnetic Resonance Imaging Studies Before and After Therapeutic Intervention, *Stroke*, 28: 1130-1137.
89. McCarthy, G., Puce, A., Gore, J.C. and Allison, T. (1997) Face-Specific Processing in the Human Fusiform Gyrus, *Journal of Cognitive Neuroscience*, 9(5): 605-610.
90. Belger, A., Puce, A., Krystal, J.H., Gore, J.C., Goldman-Rakic, P.S., and McCarthy, G. (1998) Dissociation of Mnemonic and Perceptual Processes During Spatial and Non-Spatial Working Memory Using fMRI, *Human Brain Mapping*, 6: 14-32.
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149. Engell, A.D. and McCarthy, G. (November 2010). Dissociable electrophysiological responses to faces and bodies recorded from subdural electrodes on human occipitotemporal cortex. Poster presented at the annual meeting for the Society for Neuroscience, San Diego CA. 2010
150. Gao, T., Scholl, B. J., & McCarthy, G. (November 2010). Distinguishing intentionality from animacy in the posterior superior temporal sulcus. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
151. Kim, K., McCarthy, G., and Johnson, M.K. (November 2010) Neural signature of extended self: Self-object association through mere ownership. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
152. Shehzad Z, Aktay A, Chun MM, McCarthy G. (June 2010). Intrinsic EEG Oscillations Affect Visual Perception. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping, Barcelona.
153. Morey, RA, Gold AL, LaBar KS, Haswell CC, Beall S, Brown VM, Mid-Atlantic Workgroup, Wagner HR, and McCarthy G. (May 2011) Amygdala volume changes in a large ost-9/11 veterans group with posttraumatic stress disorder. Society for Biological Psychiatry, 66th Annual Meeting. San Francisco CA.
154. Morey, RA, Selgrade ES, Petty, CM, Haswell CC, Beall S, NasserJD, Marx C, Hayes, JP, Mid-Atlantic Workgroup, and McCarthy G. (May 2011) Effects of mild traumatic brain injury and

- posttraumatic stress disorder on white matter integrity in post-9/11 veterans. Late Breaking Oral Presentation. Society for Biological Psychiatry, 66th Annual Meeting. San Francisco CA.
155. Engell, A.D. and McCarthy, G. (November 2011). Representations of face-part configuration and race in the human face-processing network. Talk presented at the Annual Meeting for the Society for Neuroscience, Washington DC.
 156. Gold, A., Morey, R., and McCarthy, G. (November 2011). Staying on task under threat of shock: Threat-induced stress influences functional connectivity of the amygdala and inferior frontal gyrus. Talk presented at the Annual Meeting for the Society for Neuroscience, Washington DC.
 157. Engell, A.D. and McCarthy, G. (October 2012). fMRI activation by face and biological motion perception: Comparison of response maps and creation of probabilistic atlases. Talk presented at the Annual Meeting for the Society for Neuroscience, New Orleans LA.

Invited Presentations:

1. Neuropsychology and Neurophysiology of Cognition, Winter Conference on Brain Research. Keystone, CO. January 1978.
2. Event Related Brain Potential Manifestations of Cognitive Activity. Bayer VII Symposium on the Evaluation of Old Age Related Changes and Disorders of Brain Function. Grosse Ledder, West Germany. October, 1978.
3. Event-Related Potentials as Tools in the Study of Cognitive Function. First Carmel Conference on Cognitive Psychophysiology. Carmel, CA. January, 1979.
4. A Critical Evaluation of Woody Filters and of Alternate Solutions to Latency Measure. Workshop on Analysis of ERPs. Vancouver, B.C., Canada. October, 1980.
5. Chronometric Analysis of Human Information Processing: A Comparison of ERP and Behavioral Measures. Department of Neuroscience, Albert Einstein Medical College, Bronx, NY. November, 1980.
6. Chronometric Analysis of Information Processing: A Comparison of ERP and Behavioral Measures. Conference on EEG Correlates of Information Processing. Zeist, The Netherlands. December, 1980.
7. Anatomical and Physiological Substrates of P300, Sixth International Conference on Event-Related Potentials. Lake Forest, IL. June, 1981.
8. Principal Component Analysis of Data from between-and within-Subject Designs. Workshop on the Analysis of Event-Related Potentials. Washington, D.C. October, 1981.
9. ERPs Associated with Cognitive Processes. British Brain Research Association Chapter at St. Andrews University, Scotland, U.K. June 12, 1984.
10. The Use of Somatosensory Evoked Potentials in Localizing the Somatomotor Hand Area During Neurosurgery. Neuroscience Grand Rounds, Hospital for Sick Children, Toronto, Canada. August 17, 1984.
11. Intracranial ERPs Associated with Language Processing in Man. Third International Conference on Cognitive ERPs, Bristol, England. September 18, 1984.
12. The Recording of Intracranial ERPs in Man, A Tutorial. Seventh Annual Carmel Conference on Cognitive Psychophysiology. Carmel, CA. January, 1985.
13. Intracranial Recordings of Endogenous ERPs in Humans. Eleventh International Congress of Electroencephalography and clinical Neurophysiology. London, England. August, 1985.
14. Depth Recorded Event-Related Potentials. Invited Lecture, American Academy of Clinical Neurophysiology. Boston, MA. June, 1986.

15. Comparison of N400 Potentials Recorded from Scalp, Cortical Surface and Medial Temporal Lobe. Fourth International Conference on Cognitive Neuroscience. Paris-Dourdan, France. June, 1987.
16. Electrophysiological Studies of Cognition. Psychology Continuing Education Seminar, West Haven VA Medical Center, October 22, 1987.
17. Intracranial Recordings of Cognitive ERPs. Advanced Course (EAEEG), Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL, December 15, 1988.
18. Intracranial Recordings of Event-Related Potentials from Epileptic Patients. Seminar in Clinical and Experimental Neurophysiology, Albert Einstein College of Medicine, New York, NY, April 6, 1989.
19. Visual Spatial Selective Attention: An Electrophysiological and Behavioral Analysis. Fourth International Evoked Potentials Symposium, Toronto, Canada, October 1990.
20. Intracranial EEG Recordings from the Human Brain. Symposium on Advanced Techniques in Clinical Neurophysiology. American Electroencephalographic Society, Philadelphia, PA. December 12, 1991.
21. Cognitive ERPs from Human Hippocampus. 12th Carmel Conference on Cognitive Psychophysiology, Carmel, CA. January 5, 1992.
22. ERPs Associated with Language Processing in Visual Cortex. Neuroscience Grand Rounds, The Hospital for Sick Children, Toronto, Canada. May 1, 1992.
23. Monkey Event-Related Potentials Recorded from Hippocampal Formation and Cortical Surface during Passive and Active Oddball Tasks. 10th International Conference on Event-Related Potentials of the Brain, Eger, Hungary. June 1, 1992.
24. Event-Related Potentials Recorded from Human Visual Cortex during Spatial and Color-Selective Attention Tasks. 10th International Conference on Event-Related Potentials of the Brain, Eger, Hungary. June 5, 1992.
25. Intracranial Electrical Activity in Association with Cognitive Behavior in Humans. 5th International Conference on Cognitive Neurosciences, Jerusalem, Israel. June 18, 1992.
26. Functional MRI of the Frontal Lobes. Epilepsy and Functional Anatomy of the Frontal Lobe, Valle d'Aosta, Italy. July 15, 1993.
27. Functional MRI. German-Austrian Neurological Congress, Vienna, Austria. September 17, 1993.
28. Viewing the Intact Brain in Action: Functional MRI as a Tool of Cognitive Neuroscience. Workshop on Cognitive Neuroscience and Functional Neuroimaging, Haifa, Israel. October 12, 1993.
29. Neurophysiology and Neuroimaging Studies of Cognition. Psychonomics Society, Washington, D.C. November 5, 1993.
30. Electrophysiological Studies of Human Cognition. American Association for the Advancement of Science, Annual Meeting, San Francisco, CA. February 18, 1994.
31. Functional MRI of Sensory, Motor and Cognitive Activity. Society of Biological Psychiatry, 49th Annual Meeting, Philadelphia, PA. May 20, 1994.
32. Advanced MR Techniques for Localization of Function - Update and Progress. Fifth International Cleveland Clinic - Bethel Epilepsy Symposium, Cleveland, OH. May 22, 1994.
33. Functional MRI of Sensory, Motor and Cognitive Activity. American Epilepsy Society, Chicago, IL. September, 1994.
34. Volumetrics: Data Acquisition, Normal Ranges and Optimal Protocol, Magnetic Resonance Techniques and Epilepsy Workshop, New Haven, CT, October 6, 1994.

35. Overview of Functional Imaging and Presurgical Evaluation, Magnetic Resonance Techniques and Epilepsy Workshop, New Haven, CT, October 8, 1994.
36. Functional Localization in the Human Brain Using Intracranial Neurophysiology and Neuroimaging. Japan Society for Psychophysiological Research, Tokyo, Japan. January 28, 1995.
37. Functional Localization in the Human Brain Using Intracranial Neurophysiology and Neuroimaging. Kyoto University, Department of Neurology, Kyoto, Japan. February 14, 1995.
38. Functional Localization in the Human Brain Using Intracranial Neurophysiology and Neuroimaging. National Institute for Physiological Sciences, Okazaki, Japan. March 3, 1995.
39. Brain Activation during fMRI: Effects of Working Memory Tasks. American Psychological Association, Science Weekend, New York, NY. August 12, 1995.
40. Functional MRI of Human Brain Function. University of Connecticut, Storrs, CT. August 9, 1995.
41. Neuroimaging and Neurophysiological Studies of Functional Anatomy of the Human Brain. Department of Neurology, Mayo Clinic, Rochester, MN. August 28, 1995.
42. Functional Magnetic Resonance Imaging of the Human Brain Functions. Department of Radiology, Mayo Clinic, Rochester, MN. August 29, 1995.
43. Localization of Nonepileptic Functional Areas in Patients with Partial Seizures. 21st International Epilepsy Congress, Sydney, Australia. September 5, 1995.
44. Current Research in Functional MRI. Visualization of Dynamic Processes in the Human Brain: Recent Advances in MEG and Functional MRI, The 10th TIP International Symposium, Tokyo, Japan. October 13, 1995.
45. Face Perception in Humans: Studies of its Neural Localization Using Functional MRI, Intracranial ERPs, and Magnetoencephalography. Non-invasive Evaluation of Higher Brain Functions (Session Coordinator), The Xth International Congress of EMG and Clinical Neurophysiology, Kyoto, Japan. October 16, 1995.
46. Functional Neuroimaging Studies of Human Cognition. Grand Rounds, Department of Psychiatry, University of Medicine and Dentistry of New Jersey. Piscataway, New Jersey. November 9, 1995.
47. Mechanisms of Facial Recognition, Cognitive Neuroscience Society, San Francisco, CA, April 1, 1996.
48. Seizure Evolution: Imaging, 7th International Cleveland Clinic – Bethel Epilepsy Symposium, Cleveland OH, May 10-12, 1996.
49. Neurophysiological and Neuroimaging Studies of Face and Letterstring Perception in Humans, International Institute for Advanced Studies, Kyoto, Japan, May 30-June 1, 1996.
50. fMRI contributions to Prefrontal Research. McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth College, Hanover, NH, July 10, 1996.
51. Face and Letterstring Perception. McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth College, Hanover, NH, July 9, 1997.
52. Neuroimaging and Neurophysiological Studies in Patients with Epilepsy. Second Namsoo Lee Memorial Lecture, Division of Neurology, Duke University, Durham, NC, July 31, 1997.
53. Human Brain Activation During Perception and Cognition. American Association for Advancement Symposium on Properties of Mind, Philadelphia, PA, February 17, 1998.
54. Functional Neuroimaging of Human Perception and Cognition. Plenary Lecture, Gatlinburg Conference, March 13, 1998.

55. A Comparison of Intracranial ERPs and Functional MRI in the Investigation of Perceptual and Cognitive Processing in Human. The Sixth International Evoked Potential Symposium, Okazaki, Japan, March 22, 1998.
56. Preoperative Evaluation of Neurosurgical Planning with fMRI. Plenary Lecture, International Society for Magnetic Resonance in Medicine, Sydney, Australia, April 22, 1998.
57. Physiological Studies of Face Processing in Humans, Colloquium Speaker, Department of Cognitive Science, UC San Diego, January 15, 1999.
58. Observing the Working Brain: Studies in Human Brain Function, Colloquium Speaker, Department of Psychology, Oberlin College, April 30, 1999.
59. Functional Neuroimaging, Invited Speaker, Society for Psychology and Philosophy, Stanford University, June 20, 1999.
60. Physiological Studies of Face Processing in Humans, Plenary Lecture, Meeting of the Japan Society for Neurology and Ophthalmology, Matsue, Japan, September 17, 1999.
61. Probing Dynamic Human Brain Function Using FMRI. The Neurobehavioral Teratology Society, West Palm Beach, Florida, June 26, 2000.
62. Functional Neuroimaging of Working Memory Processes. Current Opinion in Functional Neuroimaging of Cognition Satellite Symposium. Society For Neuroscience 30th Annual Meeting, New Orleans, Louisiana, November 3-6, 2000.
63. Brain Imaging and Cognition. The Mind Symposium, Dartmouth College, Hanover, New Hampshire, November 11, 2000.
64. Neuroimaging and Brain Electric Activities. 30th Annual Congress of the Japanese Society of Clinical Neurophysiology. Kyoto, Japan, December 13-15, 2000.
65. Functional Specialization Studied by Event-Related Potentials and Event-Related Functional MRI. 30th Annual Congress of the Japanese Society of Clinical Neurophysiology. Kyoto, Japan, December 13-15, 2000.
66. Inter-areal Coupling in Facial Perception and Recognition. The International Symposium on Inter-areal Functional Coupling in Kyoto, Japan, December 16, 2000.
67. Windows to the Brain: Functional Imaging in Early Alzheimer's Disease. 15th Annual Joseph & Kathleen Bryan Alzheimer's Disease Research Center Conference. Plenary Lecture, Duke University, February 8-9, 2001.
68. Human Brain Imaging: A New Method for Assessing CNS Function and Dysfunction. Colloquium Speaker, UNC-Chapel Hill, February 22, 2001.
69. Human Cognitive Brain Function Studied with Magnetic Resonance Imaging. International Brain Awareness Week, McMaster University, Hamilton, Ontario Canada, March 14-15, 2001.
70. New Frontiers in Functional Brain Imaging, Radiology Grand Rounds, Duke University, Durham, North Carolina, April 19, 2001.
71. ASSC5: The Contents of Consciousness, Gregory McCarthy (Plenary Talk) "Substrate for the Perception of Socially Relevant Signals," Duke University, May 30: 2001.
72. The Integration of fMRI and ERPs in the Study of Expectancy and Novelty. International EPIC XIII Meeting. Plenary Lecture, Societe Francaise de Psychologie and Societe des Neurosciences, University of Paris, Paris, France, July 9-13, 2001.
73. Electrophysiological and Neuroimaging Studies of Face and Gaze Processing. National Institutes of Health, Integrative Neuroscience Lecture, Washington, DC, October 11, 2001.
74. The Integration of fMRI and ERPs in the Study of Expectancy and Novelty. National Institutes of Health, Merge Lecture, Washington, DC, October 11, 2001.

75. Functional MRI of Cognition, Plenary Lecture, fMRI Conference, National Taiwan University – Taipei, December 10-17, 2001.
76. Functional Brain Imaging of Visual Cognition, Session Chairman, Attention & Performance XX Meeting - Erice, Sicily, June 1-July 7, 2002.
77. BIRNing Down the House: Biomedical Informatics and the Structure of the Brain. Winter Conference on Brain Research, 36th Annual Meeting. Invited Panel Speaker, Snowbird, Utah, January 25-31, 2003.
78. Imaging Structure and Function. Society of Neurological Surgeons, Invited Speaker, May 17-20, 2003.
79. Windows into the Mind. CNS Summit, Invited Speaker, Naples, Florida, July 25-27, 2003.
80. About Faces: A Multidisciplinary Approach to the Science of Face Perception Meeting. International Conference. Session Chairman and Discussant, Princeton, New Jersey, September 19-21, 2003.
81. Collaborative Networks/Tools Development/Data Sharing/Federated Databases, Invited Speaker, NIH/NCCR conference on Rare Diseases Clinical Research Network, Washington, DC, September 29-30, 2003.
82. fMRI and ERP in Humans. 14th Conference of the International Society of Brain Electromagnetic Topography. Invited Plenary Speaker, Santa Fe, New Mexico, November 19-23, 2003.
83. Progress on Neuroscience Projects. Biomedical Informatics Expert Panel Meeting. Invited Speaker, NCCR, January 21, 2004.
84. NCCR Workshop, Building on the BIRN. Invited Speaker, “Analytical approaches and querying the Human BIRN databases”, March 22-23, 2004.
85. Trans-NIH Workshop on Pediatric Functional Imaging. Invited Panel Participant, May 24-26, 2004.
86. fMRI of Frontal Lobe Function. 15th Conference of the International Society of Brain Electromagnetic Topography. Invited Plenary Speaker, Tokyo, Japan, April, 2004.
87. MATRICS New Approaches NIH Conference. Invited Panel Participant, September 9-10, 2004.
88. The 8th International Evoked Potentials Symposium. Invited Plenary Speaker, Fukuoka, Japan, October 5-8, 2004.
89. “The Oddball Paradigm”. 2005 Carmel Meeting. Invited Speaker, St. Petersburg, Florida, January 4-9, 2005.
90. “The Social Brain”. Annual Brain Behavior Day at the Hospital for Sick Children. Invited Speaker. Toronto, Canada, May 19, 2006.
91. American Psychiatric Association Annual meeting, Chair of Symposium, Toronto, Canada, May 25, 2006.
92. The Heller Lecture, “The Social Brain: Perception, Motion and Emotion” Hebrew University, Jerusalem, Israel, July 29, 2008.
93. “A Tutorial on Electrophysiology and Decision-Making” Workshop on Human Electrophysiology and Decision-Making, Society for Neuroeconomic Research, Park City, Utah, September 25, 2008.
94. “Brain Networks for Human Social Perception” MIT-BCS Vision Seminar Series, March 19, 2010.
95. “An introduction to Functional MRI” Neuroimaging in Neuropsychiatry Series, Yale University, February 25, 2010.

96. Chair, Society for Neuroscience Nanosymposium “Neural Mechanisms Underlying Fear, Anxiety, and Pain”. Society for Neuroscience Annual Meeting, Washington, D.C., November 15, 2011.