

# Curriculum Vitae

William M. Struthers  
Associate Professor  
Department of Psychology  
Wheaton College  
501 East College Avenue  
Wheaton, IL 60187-5593

Phone: 630-752-7046      Fax: 630-752-7033      Lab: 630-752-5773

Email: [William.M.Struthers@wheaton.edu](mailto:William.M.Struthers@wheaton.edu)

Webpage: <http://www.wheaton.edu/psychology/undergrad/faculty/wms/struthers.html>

## Education:

**Ph.D.** Biopsychology, Psychology Department, The University of Illinois at Chicago, Chicago, Illinois, 2000.

**M.A.** Biopsychology, Psychology Department, The University of Illinois at Chicago, Chicago, Illinois, 1996.

**B.A.** Psychology, *cum laude*, Illinois Wesleyan University, Bloomington, Illinois, 1992.

## Theses:

**Masters Thesis:** The Effects of 6-Hydroxydopamine on Sex-Induced FOS in the Striatum and Accumbens in the Male Rat. - Advisor: David Wirtshafter, Ph.D.

**Doctoral Dissertation:** Sex-Relevant Connections of the Medial Preoptic Area: A Combined Immunochemical and Tract Tracing Study. - Advisor: David Wirtshafter, Ph.D.

## Professional Experience:

**2006-Present:** Associate Professor of Psychology, Wheaton College, Wheaton, IL.

**1999-2006:** Assistant Professor of Psychology, Wheaton College, Wheaton, IL.

**1998-1999:** Visiting Instructor of Psychology, Wheaton College, Wheaton, IL.

**1997-1998:** Adjunct Instructor in Psychology, Wheaton College, Wheaton, IL.

**1999:** Adjunct Instructor in Psychology, Joliet Junior College, Joliet, IL.

**1995-1999:** Adjunct/Graduate Instructor in Psychology, The University of Illinois at Chicago, Chicago, IL.

**1994-1995:** Completed one-year practicum in Teaching of Psychology (Academic Subdivision), The University of Illinois at Chicago, Chicago, IL.

**1993-1995:** Undergraduate Academic Advisor, The University of Illinois at Chicago, Chicago, IL.

**1992-1999:** Teaching Assistant, The University of Illinois at Chicago, Chicago, IL.

## Research Experience:

**1990-1992:** Undergraduate research with Dr. Wayne Dornan, Illinois Wesleyan University. Investigating the effects of 3,4-Methylenedioxymethamphetamine (MDMA) and Paracloroamphetamine on male rat sexual behavior.

**1992-1999:** Graduate training under Dr. David Wirtshafter. Focus on dopaminergic and neuroanatomical control of sexual behavior in the male rat and neuroanatomy of sexual behavior in the female rat. Examining the effects of dopamine manipulations on striatal FOS expression in the rat (NSF-33992).

**Course Instructor for:**

Introduction to Psychology  
Statistics  
Research Methods/Experimental Psychology  
Physiological Psychology/Behavioral Neuroscience  
Sensation and Perception  
Cognition  
Learning and Motivation  
Advanced Statistics  
History of Psychology  
Men and Addictions  
Biological Bases of Behavior (graduate level – doctoral)  
Psychopharmacology (graduate level – doctoral)  
Cognition, Learning and Emotion (graduate level - doctoral)

**Research Published in Refereed Journals:**

Struthers, W.M.; DuPriest, A; and Runyan, J. (2005) Habituation Reduces Novelty-Induced FOS Expression in the Striatum and Cingulate Cortex. *Experimental Brain Research*, Vol 167(1), 136-140.

Struthers William M. Snark or Boojum? Trends in the Integration of Psychology and Christianity. *Journal of Psychology and Christianity* (2005) Vol 24(3), 195-209.

Struthers, William M. Teaching Neuroscience at a Religious Institution: Pedagogical Models for Handling Neuroscience and Theology. *The Journal of Undergraduate Neuroscience Education* (2003) Vol 1(2), A36-A40.

Struthers, W.M. Sex-Induced FOS in the Medial Preoptic Area: Projections to the Midbrain. *NeuroReport* (2001) Vol 12, 3065-3068.

Struthers, William M. Defining Consciousness: Christian and Psychological Perspectives, *Perspectives on Science and Christian Faith* (2001) Vol 53 (2), 102-106.

Struthers, W.M. and Wirtshafter, D. Quinpirole Attenuates Striatal FOS-Like Immunoreactivity Induced by Escape Behavior, *Brain Research* (1998) Vol 785, pg 347-350.

Dornan, W.A.; Vink, K.L.; Malen, P.; Short, K.; Struthers, W.M.; Barrett, C. Site-Specific Effects of Intracerebral Injections of 3 Neurokinins (Neurokinin-A, Neurokinin-K, and Neurokinin-Gamma) on the Expression of Male Rat Sexual Behavior. *Physiology and Behavior*, (1993) Vol 54 (2), pg 249-258.

## **Research Published in Abstract Form / Presentations at Professional Conferences/Invited Talks:**

Struthers, W.M. (2007) The Neurological and Spiritual Aspects of Pornography Addiction in Men. Suter Science Lecture Seminar, Eastern Mennonite University, January 26, Harrisonburg, VA.

Struthers, W.M. (2006) Neuroscience and the Imago Dei. The Center for Faith and Scholarship, Ann Arbor, MI.

Struthers, W.M. (2006) The Seven Deadly Temptations of Neuroethics. Neuroethics: The New Frontier, Center for Bioethics and Human Dignity, Deerfield, IL.

Struthers, W.M. (November, 2005) The Neurobiology of the Relationship-Oriented Mind. The "Nature" of Belief: Evolutionary Explanation, Biological Function, and Divine Purpose, Grand Rapids, MI.

Struthers, W.M. (February, 2005) The Neurobiology of the Wesleyan Quadrilateral and the Relational Brain. Fuller Symposium on the Integration of Faith and Learning, Pasadena, CA.

Struthers, W.M. (February, 2005) The Integration of Biology and Psychology. Meeting of the Associated Colleges of the Chicago Area: Psychology Division. Trinity Christian College, Paolos Heights, IL.

Struthers, W.M. (January, 2005) Neural *Imago Dei*: From Circuitry to Meaning. Hope College, Holland, MI.

Struthers, W.M. (July, 2004) Descartes' Error Revisited: The Pineal Gland, Cingulate Cortex, and the Neuroscience of Volition. American Scientific Affiliation 59th Annual Meeting, Langley, BC.

Ambert, K and Struthers, W.M. (November, 2003) Rearing in Enriched Environments Reduces Novelty-Shuttling Induced FOS Expression in the Cingulate Cortex and Striatum. Society for Neuroscience 33rd Annual Meeting, New Orleans, LA.

Struthers, W.M., Orshonsky, L., and Bolt, R. (July, 2003). Snark or Boojum? Trends in the Integration of Psychology and Christianity. American Scientific Affiliation 58<sup>th</sup> Annual Meeting, Lakewood, CO.

Struthers, W.M. (November, 2002) Neuroscience and Theology: Connecting God, Soul and Cortex. Meeting of the Christian Neuroscience Society, Orlando, FL.

Struthers, W.M. (November, 2002) Teaching Neuroscience at a Religious Institution: A Framework for the Integration of Neuroscience and Theology. Society for Neuroscience 32nd Annual Meeting, Orlando, FL.

Struthers, W.M., Runyan, J. and DuPriest, A. (2001) Habituation Decreases the Expression of FOS in the Striatum and Cingulate Cortex of Novelty-Shuttled Rats. Society for Neuroscience 31st Annual Meeting, San Diego, CA.

Struthers, W.M.; Vander Vliet, J.; Humm, K.; Bittner, K.; and DuPriest, A. (2000) The Effects of Quinpirole on Novelty-Shuttling-Induced FLI in the Rat Striatum. Society for Neuroscience 30th Annual Meeting, New Orleans, LA.

Struthers, W.M. The Function of Consciousness: Christian, Cognitive and Neuroscience Perspectives, (2000) Taking Every Thought Captive... Co-sponsored by: InterVarsity Graduate & Faculty Ministries, The Institute for Advanced Christian Study, The Pew Evangelical Scholars Program, St. Mary's of the Lake Mundelein, IL. March 12.

Struthers, W.M. and Wirtshafter, D. (1999) Novelty Induces Striatal FOS-Like Immunoreactivity in the Striatum of Male and Female Rats. Midwestern Psychological Association 18th Annual Meeting, May, 1999, Chicago, IL.

Struthers, W.M. and Wirtshafter, D. (1998) The Effects of the Adenosine A<sub>2A</sub> Receptor Antagonist CGS 21680 on Male Rat Sexual Behavior. Society for Neuroscience 28<sup>th</sup> Annual Meeting, Los Angeles, CA.

Struthers, W.M. and Wirtshafter, D. (1998) Quinpirole Attenuates Striatal FOS-Like Immunoreactivity Induced by Escape Behavior. Midwestern Psychological Association 17th Annual Meeting, May, 1998, Chicago, IL.

Struthers, W.M. and Wirtshafter, D. (1997) An Analysis Of Striatal FOS-Like-Immunoreactivity Induced By Sex Or Forced Locomotor Activity: Distribution Throughout The Matrix And Striosomes. Society for Neuroscience 27th Annual Meeting, New Orleans, LA.

Struthers, W.M. and Wirtshafter, D. (1996) Forced or Voluntary Locomotor Activity Elicits FOS-Like Immunoreactivity in the Rat Striatum. Society for Neuroscience 26th Annual Meeting, Washington, DC.

Struthers, W.M. and Wirtshafter, D. (1995) Copulation Induces FOS-Like-Immunoreactivity in the Striatum of Male Rats. Society for Neuroscience 25th Annual Meeting, San Diego, CA.

Struthers, W.M. and Wirtshafter, R.D. (1994) Sexual Behavior in Female Rats Induces FOS-Like- Immunoreactivity in Medial Hypothalamic Cells Projecting to the Central Gray. Society for Neuroscience 24th Annual Meeting, Miami, FL.

Dornan, W.A., Katz, J.L., Ricaurte, G.A. and Struthers, W.M. (1991) The Effects of Repeated Administration of MDMA on the Expression of Sexual Behavior in the Male Rat. Conference on Reproductive Behavior, June: California..

## **Articles Published/Book Chapters/Books Reviewed:**

Struthers, W.M. *What is the Mind-Brain Problem*. In: Not Just Science. Ed. Chappell, Dorothy F. and Cook, E. David. Zondervan: Grand Rapids, MI. (2005)

Book Review of: Minding God, by Gregory R. Peterson, Fortress Press, Minneapolis, MN (2003), *Research News and Opportunities in Theology and Science*, July/August (2003), Vol 3(11/12), pg 34.

Article: A Guide to Graduate School for Christians in Science: Growing and Staying Sane, by William M. Struthers. Young Scientist's Corner, *Perspectives on Science and Christian Faith* (1999), Vol 50 (3), pg 72-75.

Book Reviews of: The 7 Laws of the Learner, by Bruce Wilkinson; The Mind of Christ, by T.W. Hunt; Genesis Unbound, by John Sailhamer. *Reading for Life*, 2001, Xlibris Corporation.

Book Review: Baker Encyclopedia of Psychology and Counseling, 2<sup>nd</sup> Ed. Edited by David G. Benner and Peter C. Hill; Baker Books, Grand Rapids, MI (2000). *Perspectives on Science and Christian Faith* (2000), Vol 52 (2), pg 144-145.

Book Review: William James: The Center of His Vision, by Daniel Bjork, American Psychological Association Press, Washington, DC. *Perspectives on Science and Christian Faith* (1999), Vol 50 (3), pg 232-233.

Book Review: An Intellectual History of Psychology, by Daniel Robinson, University of Wisconsin Press, Madison, WI, 1996, 3rd Ed. *Perspectives on Science and Christian Faith* (1997), Vol 49 (4), pg 274-275.

## **Institutional Service**

BreakAway Trip Leader (London, 2006)

Wheaton College Animal Care and Use Committee (1999-present, chair 2000-2004)

Wheaton College Animal Care and Use Committee Program Review Sub-Committee (1999-present)

Wheaton College Psychology Department Human Research Review Committee (2001-2003)

Wheaton College Institutional Review Board (2001-present, chair 2005-present)

Educational Policies and Curriculum Ad Hoc Subcommittee Chair for Freshman Experience (2003-2004)

Faculty Advisor to Psi Chi (2000-2006)

Faculty Advisor to Student Government (2000-2004)

**Professional Service/Reviewer/Conference Participant/Consultant:**

Perspectives on Science and Christian Faith (reviewer)

Austrian Science Fund (reviewer)

InterVarsity Press (reviewer)

Allyn & Bacon (reviewer)

Atomic Dog Publishing (reviewer)

Fuller Integration Symposium (participant, Feb 2005)

Center for Bioethics and Human Dignity (consultant)

MasterPlan International (consultant)

Christ for Children International (testing consultant)

Calvin College Summer Seminar in Christian Scholarship: Nature in Belief (Summer 2005, participant)

**Membership in Professional Societies:**

[\*Society for Neuroscience\*](#)

[\*American Scientific Affiliation\*](#)

[\*Faculty for Undergraduate Neuroscience\*](#)

[\*American Association for the Advancement of Science\*](#)

[\*American Psychological Society\*](#)

[\*Neuroethics Society\*](#)