

Curriculum Vitae

Nils Sören Peterson

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Scholastic Record

B.A.	1977	Whitman College, Walla Walla, Washington (Chemistry)
M.Arch	1982	University of California, Berkeley (Architecture)

Professional Experience

1983	Associate in Research, Department of Veterinary Clinics, Washington State University, Pullman
1983-1984	Associate in Research, College of Engineering, Washington State University, Pullman
1984-1986	Assistant Knowledge Interface Designer, Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, Washington State University, Pullman
1986-1989	Associate in Research, Department of Computer and Information Science, University of Oregon, Eugene
1989-1993	Managing Editor and Owner, From The Heart Software, PO Box 9111, Moscow, ID 83843-1611
10/1991- 6/1992	Ramsey-Maitland Visiting Research Fellow, School of Biological and Medical Sciences, University of St. Andrews, St. Andrews, Fife, Scotland.
1992-1993	Student Affairs Officer, Student Advising & Learning Center Washington State University
1993-1996	Coordinator: Educational Technology Unit, College of Education, Washington State University
1996-2000	Director: Educational Technology Unit, College of Education, Washington State University
Oct 2000-Sept 2009	Assistant Director, Center for Teaching, Learning and Technology, Washington State University
Oct 2009-Present	Assistant Director, Office of Assessment and Innovation, Washington State University

Boards and Commissions

July 2006 – Dec 2006 Member: Palouse Prairie School Board
Dec 2006 – Present Chair: Palouse Prairie School Board
February 2008 – Present Member: Moscow Planning and Zoning Commission

ePortfolios

Essays <http://communitylearning.wordpress.com> (contributor)
 <http://wsuctlt.wordpress.com> (site retired June 2009) (contributor)
 <http://www.nilspeterson.com> (owner)
Photos http://flickr.com/photos/nils_peterson/
Bookmarks http://www.diigo.com/user/nils_peterson
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systems as:

Papers

1. Ringo, J.A., K.B. Campbell, **N.S. Peterson**, and R.A. Baker. 1982. Frequency modulation of heart to increase low-frequency content of cardiovascular signals. *IEEE Trans. Biomed. Eng.* 29: 537-541.
2. **Peterson, N.S.** and K.B. Campbell. 1984. Simulated Laboratory for teaching cardiac mechanics. *The Physiologist* 27: 165-169.
3. **Peterson, N.** 1984. Designing a simulated laboratory. *BYTE* 9: 287-296.
4. **Peterson, N.S.**, and K.B. Campbell. 1985. Teaching cardiovascular integrations with computer laboratories. *The Physiologist* 28: 159-169.
5. **Peterson, N.S.**, K.B. Campbell, R.H. Hopkins, and S.A. Feiner. 1985. An integrated cardiovascular teaching laboratory. *The Physiologist* 28: 447-448.
6. Finzer, W.F. and **N.S. Peterson**. 1986. Designing a simulation. *Computer Classroom Learning*, 6 (February): 42-45.
7. **Peterson, N.S.**, T.Y. Kagehiro, and K.B. Campbell. 1986. Real-time cardiovascular simulation using two microprocessors. *Mathematical Modelling* 7, 929-940.
8. **Peterson, N.S.**, K.B. Campbell. 1986. Designing interfaces for microcomputer simulations that teach integrative physiology. *Trans. Summer Computer Simulation Conference, Society for Computer Simulation, La Jolla CA*, 390-394.
9. Hopkins, R.H., K.B. Campbell, and **N.S. Peterson**. 1987. Representations of perceived relations among the properties and variables of a complex system. *IEEE Trans Sys. Man and Cyber.* SMC-17(1), 52-60.
10. **Peterson, N.S.** J.R. Jungck, D.M. Sharpe, and W.F. Finzer. 1987. A design approach to science. *Machine Mediated Learning* 2: 1&2, 111-127.
11. Feiner, S.A. and **N. Peterson**. 1987. Simulations in physiology: Developing integrative thinking. *Academic Computing*, 1 (1): 27-29,63.
12. **Peterson, N.S.** 1988. Isolated Heart Laboratory Revisited, *Midwest Bioscene*, 14 (1): 3-7.
13. **Peterson, N.S.**, S.A. Feiner and D.D. Barbee. 1988. Diagnostic practice reinforces lessons from laboratories, *Computers in Life Science Education*, 5 (1): 5-8.
14. **Peterson, N.S.** 1988. Computer simulations as alternatives to animals, *Scientist's Center for Animal Welfare Newsletter* 10(1): 1 and 13-14.
15. **Peterson, N.S.** and J.R. Jungck. 1988. Problem-Posing, Problem-Solving, and Persuasion in Biology Education, *Academic Computing*, 2 (6): 14-17 and 48-50, March-April.
(<http://www.beloit.edu/~bquest/note21.html>)

16. **Peterson, N.S.** and C.B. Campbell. 1990. Qualitative simulation simplifies the development of computer-based tutorials in physiology. *Life-Sciences Simulation: Then, Now and When*. John McLeod, Ed. pp 49-54.
17. Odum, E.C., H.T. Odum and **N. Peterson**. 1990. Simulation and the Systems Approach. *The CSPR Newsletter*, 8 (3): 13-16.
18. Peterson, Nils S. 1991. Education, Computer Software and Animal Welfare, Invited article for a newsletter published by the Animal Welfare Information Center of the National Agriculture Library. October.
19. Aiton, James F. and **Peterson, N.S.** 1991. Using General Purpose Software to Teach Biology. *Life Sciences Educational Computing*, CTI Centre for Biology, University of Liverpool.
20. **N.S. Peterson** and K.C. Facemyer. 1996. The Impact of the Internet on Learners and Schools. *NASSP Bulletin*, October and (<http://www.vpds.wsu.edu/articles/nassp.html>). (currently offline, ask for copy)
21. Facemyer, K.C. and **N.S. Peterson**. 1996. Once you are caught in the Web You Can't Get Out: The Internet Pandora's Box is Open. *Curriculum in Context* 23(1). pp 25-29 and (<http://www.vpds.wsu.edu/articles/cic.html>). (currently offline, ask for copy)
22. Odum, H.T. and **N. Peterson**. 1996. Simulation and Evaluation with Energy System Blocks. *Ecological Modelling*, 93, pp. 155-173.
23. Brahler, C. J., **N. S. Peterson**, and Emily C. Johnson. 1999. Developing on-line learning materials for higher education: An overview of current issues, *Educational Technology & Society* Vol 2(2). April 1999. (http://ifets.gmd.de/periodical/vol_2_99/jayne_brahler.html).
24. Payne, J Scott and **N. S. Peterson**. 2000. The Civil War project: project-based collaborative learning in a virtual space. *Educational Technology & Society* 3(3).
25. **Peterson, N.S.** and K. C. Facemyer. 2000 Educational Computing: 2000 and beyond. *Life Sci Edu Comp* . 11:12-19.
26. Handley, Chris, Wilson, A, **Nils Peterson**, Brown, G & Ptaszynski, J. September 2007. Out of the Classroom & Into the Boardroom Microsoft Whitepaper prepared for EDUCAUSE 2007 (<http://www.microsoft.com/presspass/events/educause/docs/EducauseWhitepaper.pdf>)
27. Brown, Gary and **Peterson, Nils**, Wilson, A., and Ptaszynski, J. Out of the Classroom and Beyond. *Innovate: Journal of online education*. Vol 4 (5), June/July 2008. (<http://innovateonline.info/index.php?view=article&id=559>)
28. Brown, Gary and **Peterson, Nils**. The LMS Mirror: School as We Know IT versus School as We Need IT and the Triumph of the Custodial Class. *MERLOT Journal of Online Learning and Teaching*. Vol. 4, No. 2, June 2008 (<http://jolt.merlot.org/vol4no2/brown0608.htm>)
29. Brown, Gary, DesRosier, T., **Peterson, Nils**, Chida, M., Lagier, R. 2009. Engaging Employers in Assessment. *About Campus* Vol 14(5) Nov-Dec 2009. NUTN award for best essay – 2009 (<http://www3.interscience.wiley.com/cgi-bin/fulltext/123216907/PDFSTART>)
30. Ehrmann, S. C. & **Peterson, N.** Matrix Surveys: A New Tool for Evaluation and Research, *Assessment Update*, 22-3, May-June 2010, pp 3-5. (

Book Chapters

1. Campbell, K.B., J.A. Ringo, and **N.S. Peterson**. 1987. Sensitivity analysis of interaction between the left-ventricle and systemic arteries. In *Cardiovascular Physiology*, ed. F. Yin., Springer-Verlag, New York, NY.
2. **Peterson, N.S.** and J.R. Jungck. 1992. Scientific Practica for Learning Biology: Where actions teach more than words. Chapter in book: *Learning to Design, Designing to Learn: A More Creative Role for Technology*. Taylor and Francis (New York).

Other Publications

1. Kramer, K., **Peterson, N.S.**, et al. 1989; 2nd Ed. 1991. *Computing and Students with Disabilities: New Challenges for Higher Education*. EDUCOM, 1112 16th Street, NW, Suite 600, Washington DC.

Abstracts/ Conference Presentations

1. Ringo, J., R. Baker, **N. Peterson** and K. Campbell. 1978. Frequency modulation of heart to increase low-frequency content of cardiovascular signals. *The Physiologist Teacher* 21: 16.
2. **Peterson, N.S.**, K.B. Campbell. 1983. Simulated laboratory for teaching cardiovascular physiology. National Symposium for use of Microcomputers in Health Care Education, Omaha, Nebraska.
3. **Peterson, N.S.**, K.B. Campbell. 1984. Simulated laboratory for teaching cardiovascular physiology. *Fed. Proc.* 43: 1104.
4. Campbell, K.B., R.H. Hopkins, and **N.S. Peterson**. 1984. Teaching complexity aspects of physiology with the computer. Los Angeles California, 37th ACEMB 26: 123.
5. **Peterson, N.S.** and K.B. Campbell. 1984. Computer interface mimics cardiovascular hierarchy. Los Angeles California, 37th ACEMB 26: 220.
6. **Peterson, N.S.** and K.B. Campbell. 1985. An integrated cardiovascular teaching laboratory. *Fed. Proc.* 44: 1926.
7. Ehrmann, S.C. and **N.S. Peterson**. 1985. The consequences of three strategies of educational computing: a draft. American Assoc. of Higher Education Conference, Chicago, Illinois.
8. **Peterson, N.S.**, K.B. Campbell and D.R. Armstrong. 1986. Imperative for integrative thinking. American Assoc. of Higher Education Conference, Washington, D.C.
9. **Peterson, N.S.** and K.B. Campbell. 1986. Simulation of valsalva and other clinical maneuvers on the cardiovascular system. *Proceedings of the Federation of American Societies of Experimental Biology*.
10. Feiner, S.A., **N.S. Peterson** and K.B. Campbell. 1986. Teaching integrative pulmonary mechanics with microcomputers. *Proceedings of the Federation of American Societies of Experimental Biology*.
11. Clark, R.W., **N.S. Peterson** and K.B. Campbell. 1986. Animated left ventricular images coupled to E(t) performance models. Zouz, Switzerland, Cardiovascular Systems Dynamics Society.
12. **Peterson, N.S.** and S.A. Feiner. 1987. Adaptable problem-solving tool reinforces knowledge integration in physiologic systems. *Proceedings of the Federation of American Societies of Experimental Biology*.
13. **Peterson, N.S.** 1988. Model driven image for teaching cardiac function and anatomy. *Proceedings of the Federation of American Societies of Experimental Biology*.
14. Whiten, S.C., **N.S. Peterson** and J.F. Aiton. MacCycle: A Computerised Visual Database for Teaching Histology, Physiological Society (UK), 1993.
15. Facemyer, K.C., **N.S. Peterson**, B. Oliver. Creation, Administration, and Impact of a Virtual School Project Using the Internet. National Distance Learning Conference III, Portland OR, March 1996
16. Facemyer, F.C., K R. Franz, **N.S. Peterson**. Real Outcomes from a Virtual School. *Proceedings of SITE'96 (Association for Advancement of Computing in Education)*, March 1996. (<http://www.vpds.wsu.edu/articles/AACE1996.1.html>) (currently offline, ask for copy)
17. **Peterson, N.S.** Administering a Virtual School to Create Real Outcomes. *Proceedings of SITE'96 (Association for Advancement of Computing in Education)*, March 1996. (<http://www.vpds.wsu.edu/articles/aace1996.3.html>)
18. Facemyer, K. C., Brown, G., **Peterson, N.** Establishing Distributed Learning Communities (DLCs) using the Internet, *Proceedings of WebNet '96*, October 1996. (<http://aace.virginia.edu/aace/conf/webnet/html/439.htm>)
19. Schliesman T., **N. S. Peterson**, G. Cressman & K. Streuli. Authenticating a Virtual School. *Distance Education: Designing for Success Conference*. Seatac, Washington, May 19, 1997. (<http://www.vpds.wsu.edu/articles/disted97/authenticate.html>) (currently offline, ask for copy)
20. Payne, J.S., **N. Peterson**, B. Smith, G. Cressman & K. Streuli.. Civil War Project: Student Mentoring and Writing Development in an Online Collaborative Research and Writing Environment. *Distance Education: Designing for Success Conference: Encore*. Bellevue, Washington, May 30, 1998.

21. Brown, G., **N. Peterson**, K. Facemyer. Automated Analysis of Students' Written Work. Distance Education: Designing for Success Conference: Encore. Bellevue, Washington, May 28, 1998.
22. Kowitz, A., **N. Peterson**. Providing Teacher In-service Classes on Technology at a Distance in a Rural Setting. Distance Education: Designing for Success Conference: Encore. Bellevue, Washington, May 29, 1998.
23. **Peterson, N.**, Brown, G., K. Facemyer. Hundreds of Students Learning Online: Scaling Up!. Distance Education: Designing for Success Conference: Encore. Bellvue, Washington, May 29, 1998.
24. **Peterson, N.**, D. Magee, J. Erickson, and J. Payne. Automated Assessment of, and Feedback to, Student Essays. Tenth Annual Higher Education Assessment Conference. Spokane WA. May 6, 1999. (<http://www.vpds.wsu.edu/articles/stateassess99/index.htm>) (currently offline, ask for copy)
25. Facemyer, K. C, **Peterson, N. S.**, Emerson, J. van Wingerden, C., Ray, D. & Perkins, T. Virtual Organizations, Virtual Mentoring, and At-Risk Youth: A Panel Discussion of the New Metacommunity. Educause: Celebrating New Beginnings. Long Beach, California, October 28, 1999. (<http://www.educause.edu/ir/library/html/edu9922/edu9922.html>)
26. **Peterson, Nils** A Juxtaposition of Technologies: VUE, PurpleSlurple, Wikalong & Del.icio.us. Poster session, Social Software and the Academy Workshop, May 14,15, 2005 Annenberg Center, USC. (https://wiki.wsu.edu/index.php/User:Nils_peterson/Juxtaposition)
27. Lin, L, Bogen, D., Sheldon, J., **Peterson, N.** Panel: Planning for Campus-Wide Integration of Social Software. Social Software and the Academy Workshop, May 14,15, 2005 Annenberg Center, USC (<http://www.annenberg.edu/symposia/ssaw/program.html>)
28. Fulkerson, Cathy, Wallace, Raymond & **Peterson, Nils**. The ePortfolio Workspace and Re-Accreditation in 2009: What We've Learned. AIR 2008 Annual Forum, Seattle, Washington, May 24-28, 2008. (PowerPoint slides: <http://www.docstoc.com/docs/5363488/The-ePortfolio-Workspace-and-Preparations-for-Re-accreditation-in-2009>)
29. **Peterson, Nils S.** Brown G, Jacobson, J, DesRosier, T. Authentic Assessment of Learning in Global Contexts. AAC&U 2009 Annual Meeting: Ready or Not: Global Challenges, College Learning, and America's Promise Seattle, Washington—January 21-24, 2009 (<http://www.aacu.org/meetings/annualmeeting/AM09/program.cfm>)
30. **Peterson, Nils**. Shifting Faculty Roles for New Learning Environments. AAC&U Meeting SHAPING FACULTY ROLES IN A TIME OF CHANGE: Leadership for Student Learning. April 2-4, 2009 I San Diego, California. (<http://wsuctlt.wordpress.com/2009/03/31/shifting-faculty-roles-for-new-learning-environments/>)

Conferences Organized

1. Sylvia Beach Conference, Newport, Oregon. 1989
2. Second Sylvia Beach Conference, Newport, Oregon. 1990
3. Third Sylvia Beach Conference, Newport, Oregon. 1991
4. St Andrews Scotland. June 1992
5. Fourth Sylvia Beach Conference, Newport, Oregon. 1993

Online Educational Events

1. Online Science Fair, Sept - Dec. 1995 (see http://www.vpds.wsu.edu/fair_95/) (currently offline, ask for access)
2. Washington History and Peoples Expo, Feb - April 1996. (see <http://www.vpds.wsu.edu/WAHistCult/expo.html>) (currently offline, ask for access)
3. Youth Science Forum, Sept - Nov. 1996 (see http://www.vpds.wsu.edu/sciforum/sci_forum_96.html) (currently offline, ask for access)
4. Civil War Project, Jan - Mar. 1997 (<http://njagi.educ.wsu.edu/civilwar/civilwar.html>) (currently offline, ask for access)
5. Elk City Writing project, Oct. 1999 (<http://njagi.educ.wsu.edu/elkcity/index.htm>) (currently offline, ask for access)

Courses Taught

1. TL 445 Technology used in the Schools, Washington State Univ. (Spring 1994 thru Spring 1999)
2. TL 455 Educational Uses of Microcomputers, Washington State Univ. Spring 1997 & 1998
3. EdAd 518 Educational Technology, Washington State Univ. Spring 1999

Doctoral and Master's Committees*

1. Facemyer, Kevin C, PhD 1996
 2. Killinger, Brian, MEd 1997
 3. Brahler, Jayne PhD 1998
 4. Magee, Dashia, MEd, 1999
 5. Payne, C Scott PhD 2000
 6. Kim, Sumi MEd
 7. Casmar, Stephen PhD 2000
 8. Erickson, Jon EdD 2000
- * all students at Washington State Univ.

Current Software Projects

1. **Skylight Matrix Survey System.** Project Manager and Sub-contract Liaison to TLTGroup 2003-present.

Software Published

2. **Peterson, N.S.** 1984. Isolated Heart Laboratory. Command Applied Technology, Pullman, Washington.
3. **Peterson, N.S.** with D.R. Armstrong. 1985. Cardiovascular Systems and Dynamics. Command Applied Technology, Pullman, Washington.
4. Feiner, S.A. and **N.S. Peterson.** 1986. Pulmonary Mechanics Laboratory. Command Applied Technology, Pullman, Washington.
5. **Peterson, N.S.** and S.A. Feiner. 1987. Fault Identification Game. Freeware.
6. **Peterson, N.S.** Editor. 1991. Cardiovascular Function Laboratories. Command Applied Technology, Pullman, Washington.
7. Douglas, S, **N.S. Peterson** and D. Udovic. 1991. Cardiovascular Construction Kit. In the BioQUEST Collection, John Jungck, Ed. Advanced Software Development Group, University of Maryland. 1993.
8. **Peterson, N.S.** and V.G. Vaughan. 1991. Isolated Heart Laboratory. In the BioQUEST Collection, John Jungck, Ed. Advanced Software Development Group, University of Maryland. 1993.
9. **Peterson N.S.** and J.F. Aiton. 1992. Goldman Equation Lab. In the St. Andrews Collection Krista Kramer, Ed. Univesity of St Andrews, Department of Biology, University of St Andrews, Scotland.
10. **Peterson N.S.** and F.W.Flitney. 1992. Isolated Muscle Lab. In the St. Andrews Collection, Krista Kramer, Ed. Univesity of St Andrews, Department of Biology, St Andrews, Scotland.
11. **Peterson N.S.** and J.F. Aiton. 1992. Glucose Tolerance Lab. In the St. Andrews Collection, Krista Kramer, Ed. Univesity of St Andrews, Department of Biology, University of St Andrews, Scotland.
12. Whiten, S.C and **N.S.Peterson.** 1992. MacCycle. In the St. Andrews Collection, Krista Kramer, Ed. Univesity of St Andrews, Department of Biology, University of St Andrews, Scotland.

Consulting

1. Design of Library as Learning Center and Smart Classrooms. University of Botswana, Aug 4-24, 2001

Grants and Contracts

1. Computer Simulations for Integrative Learning in Physiology. Fund for the Improvement of Post-Secondary Education (FIPSE) 8/15/84 - 8/14/87 \$292,399. Co-PI: K.B. Campbell and **N.S. Peterson.**
2. Computer Simulation for Teaching Cardiology Trainees. NIH/NHLBI (SBIR) HL37790 2/87 - 8/87. \$50,000. PI: **N.S. Peterson.**
3. Biology Laboratory Construction Kit with Intelligent Tutor. Fund for the Improvement of Post-Secondary Education (FIPSE). 9/1/87-8/31/89. \$271,515 Co-PI: **N.S. Peterson, S. Douglas,**
4. BioQUEST. Annenberg Project of the Corporation for Public Broadcasting. 5/1/88-4/30/90. \$355,000. Co-PI: J.R. Jungck and **N.S. Peterson**
5. Computer Tools for Teaching Cardiovascular Function. NIH/NHLBI (SBIR) HL37790 12/88 - 11/91. \$408,284. PI: **N.S. Peterson**
6. Cardiovascular Pathophysiology Simulations for Teaching. NIH/NHLBI (SBIR) HL48965 8/92 - 1/93. \$49,753. PI: **N.S. Peterson**
7. WSU Summer Programs, to develop alternative computer-based Math Methods course for summer'94. Funded for \$1765.34. PI: Adams, V. & **N.S. Peterson** with Diane Azim
8. WSU Summer Programs, to develop alternative computer-based exercise physiology course for summer'94. Funded for \$1700. PI: Blank, S. & **N.S. Peterson** with Jayne Brahler
9. Teaching about Washington's Peoples in the On-line Classroom. Washington State Office of Superintendent for Public Instruction. 9/95-8/96, \$26,000 PI: **Peterson, N.S.**
10. Teacher Inservice in Educational Technology Using Food Systems Curricula. Partnership 2020 (a project of Kellogg Foundation) 8/98-5/99 \$24,996. co-PI **Peterson, NS** and S Spaeth.
11. Vision Grant for Palouse Prairie School of Expeditionary Learning 3/08-9/08 \$20,000. **Peterson, N.S.** Funded by Idaho State Department of Education
12. Startup Grant for Palouse Prairie School of Expeditionary Learning 8/08-7/10 \$100,000 **Peterson, N.S.** Funded by JA and Kathryn Albertson Foundation
13. Startup Grant for Palouse Prairie School of Expeditionary Learning 12/08-2/11 \$651,950 **Peterson, N.S.** Funded by Idaho State Department of Education

Timber Frame Projects

1. Peterson Woodshed. 1994. Roles: Hew timbers, joinery, raising, finish out.
2. Peterson Barn. 1997. Roles: Mill timbers, joinery, raising leader, finish out. http://www.flickr.com/photos/nils_peterson/tags/petersonbarn/
3. Styer Barn, 2000. Roles: Design, crew leader for joinery, raising leader http://www.flickr.com/photos/nils_peterson/tags/styer/
4. North Central Health District – Orofino Office, 2001. Roles: Design consultant, mill timbers, joinery, raising leader. http://www.flickr.com/photos/nils_peterson/tags/orofinoclinic/
5. Berman Creekside Park Shelter, 2002. Roles: Design, joinery, raising. http://www.flickr.com/photos/nils_peterson/tags/bermanshelter/
6. Loge Stabur, 2002. Role: Design. http://www.flickr.com/photos/nils_peterson/tags/stabur/
7. Kramer Picnic Shelter, 2003. Roles: Design, supervise joinery with Moscow High students, raising, finishing. http://www.flickr.com/photos/nils_peterson/tags/elkcity/
8. Fleisher Studio, 2005. Roles: Design, raising, roofing. http://www.flickr.com/photos/nils_peterson/tags/studio/

Community Activism

9. No Super Walmart (<http://nosuperwalmart.com>). Spokesperson and community organizer. Jan-May 2006
10. SaveTheBus (<http://savethebus.org>). Web strategist and community organizer. Jan-May 2007
11. Palouse Prairie School of Expeditionary Learning. (<http://PalousePrairieSchool.org>) Assist development of charter and spokesperson to argue charter petition of K-6 school. July 06-July 08.

Revised 02/27/10