

CURRICULUM VITA

PERSONAL

Name:

LISA M. DANIELS

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EDUCATION:

Ed.D.(Educational Leadership) Texas A&M University—Corpus Christi, May, 2002
M.Ed. (Gifted/Talented Education) Okalahoma City University, August, 1993
B.A. (English) Okalahoma City University, December, 1992
B.S. (Theatre) Okalahoma City University, May, 1992

Doctoral Dissertation:

An Ethnographic Study of the Effects of Legislated High Stakes Testing on the Curriculum Landscape of Public Schools in Texas, Massachusetts, and New York. Texas A&M University—Corpus Christi, 2002

POSITIONS:

2001-Present Assistant Professor, Teacher Education
2005-Present Associate Director, NDSU Center for Science & Mathematics Education
2005-Present Director, M.Ed. (Science Education) Program
2002-2003 Director, PIRATE program
2000 Adjunct Professor, Teacher Education, Texas A&M University—Corpus Christi
1999-2000 Classroom Teacher, 6-8 Grade English; 11-12 Grade Journalism, Presbyterian
Pan American High School, Kingsville, TX
1997-1999 Classroom Teacher, 9-12 Grade Speech, English; 6-8 Grade Drama (1997 only)
Aransas Pass High School (Middle School), Aransas Pass, TX
1993-1997 Classroom Teacher, 9-12 Grade Drama, English, Edmond North High School,
Edmond, OK

COURSES TAUGHT:

GENERAL EDUCATION: Introduction to Education; Classroom Management for Diverse Learners;
Supervision of Student Teaching

METHODS: Instructional Planning, Methods, and Assessment; Instructional models (graduate)

ASSESSMENT: Teaching and Assessing for Authentic Learning (graduate)

RESEARCH: Research and Reflective Practice (graduate)

CULTURAL DIVERSITY/SOCIAL JUSTICE: Native American/Multicultural Instructional Practices;
Transforming Schools

PROFESSIONAL AWARDS:

- 2005 James Lebedeff Endowed Professorship Development Award, College of Human Development and Education, NDSU
- 2005 NDSU College of Human Development and Education "Grant Proposal Support Award"
- 2005 NDSU College of Human Development and Education "Exceptional Contributions to Scholarly Activity"
- 2004 NDSU College of Human Development and Education "Grant Proposal Support Award"

COMMITTEE SERVICE:

State:

ETS standard setting panel for North Dakota PRAXIS I assessment: 2002

University:

World Wide Web Instructional Committee: 2002-Present

Advisory Board, Center for Science and Math Education: 2003-Present

College:

Grade Appeals Committee: 2004-Present

Academic Affairs Committee: 2004-2005

Assessment Review Committee (Peer review): 2003

Department / Other:

Accreditation/Assessment Committee (Chair): 2004-Present

Academic Affairs Committee (Chair 2004-2005): 2003-2005

Teacher Education Search: 2006; 2004-05; 2003; 2002

Teacher Education Improvement Committee: 2003

Diversity Work Group Member: 2002

PROFESSIONAL MEMBERSHIPS:

Phi Delta Kappa (PDK) 1998-Present

PUBLICATIONS:

Books and Book Chapters

Slator, B.M., Beckwith, R., Brandt, L., Chaput, H., Clark, J.T., **Daniels, L.M.**, Hill, C., McClean, P., Saini-Eidukat, B., Schwert, D.P., Vender, B., White, A.R. (2006). *Electric Worlds: Role-based virtual environments for education*. Teachers College Press.

Daniels, L.M., McClean, P., Saini-Eidukat, B., Schwert, D.P., Slator, B.M., Terpstra, J., White, A.R., Addicott, K. (2005) *Effects of Teaching Science through Immersive Virtual Environments*. In *Web-Based Intelligent e-Learning Systems: Technologies and Applications*, edited by Z. Ma, Idea Group, Inc., Hershey, PA, pp. 271-290.

Slator, B.M., Clark, J.T., **Daniels, L.M.**, Hill, C., McClean, P., Saini-Eidukat, B., Schwert, D.P., White, A.R. (2002). *Use of Virtual Worlds to Teach the Sciences*. In *Virtual Environments for Teaching and Learning*, edited by L.C. Jain, R.J. Howlett, N.S. Ichalkaranje, G. Tonfoni. World

Scientific Publishing Co. Pte. Ltd.: Singapore. Pp. 1-40.

Refereed, Reviewed Proceedings, Etc.:

McClean, P., Johnson, C., Rogers, R., **Daniels, L.**, Reber, J., Slator, B.M., Terpstra, J., White, A. (Summer, 2005) Molecular and Cellular Biology Animations: Development and Impact on Student Learning Cell Biology Education, Vol. 4, Number 2, pp 169-179. DOI:10.1187/cbe.04-07-0047. <http://www.cellbioed.org/pdf/04-07-0047.pdf>

Hill, C., Slator, B.M., Shanmugasudarum, V., **Daniels, L.M.** (2006) An Online Computer Science Instructional Resource. Proceedings of the International Association of Science and Technology for Development (IASTED) International Conference on Web-based Education, January 23-25, 2006, Puerto Vallarta, Mexico

Saini-Eidukat, B., Schwert, D.P., Slator, B., **Daniels, L.**, and Terpstra, J. (2005) Research on Authentic Assessment Using a Virtual World for Learning Geology. Proceedings of the Geological Society of America North-Central Section, 39th Annual Meeting, 19-20 May 2005, Minneapolis, MN. (published abstract)

Hill, Curt, Slator, B.M., **Daniels, L.M.** (2005). The Grader in ProgrammingLand. Proceedings of the National ACM Computer Science Education Conference. St. Louis, MO: Sheridan Publishing. February 23-27, pp. 211-215.
<http://portal.acm.org/citation.cfm?doid=1047344.1047421>

Daniels, L., Floyd, D. (2005) A Triangulated Study of the Effects of Legislated High Stakes Testing on the Curriculum Landscape of Public Schools in Multiple States. Proceedings of the Hawaii International Conference on Education, January 4-7, Honolulu, HI, pp. 976-983.

McClean, P., **Daniels, L.**, Slator, B., Terpstra, J., White, A. (2005) Effects of Molecular and Cellular Biology Animations on Student Learning. Proceedings of the Hawaii International Conference on Education, January 4-7, Honolulu, HI, pp. 2898-2904.

Overton, K., Wilhelm, A., **Daniels, L.** (2005) Connecting the Dots: A Look at Pre-Service Teachers, Dispositions, and Accountability. Proceedings of the Hawaii International Conference on Education, January 4-7, Honolulu, HI, pp. 3315-3317.

Hill, C., Slator, B., and **Daniels, L.** (2004). Using and Validating ProgrammingLand. Proceedings of Proceedings of the 7th IASTED International Conference on Computers and Advanced Technology in Education (CATE-04), V. Uskov (Ed.), August 16-18, Kauai, HI, pp. 291-296.

Hill, C., Slator, B., and **Daniels, L.**(2004). An Online Resource for the Introductory Programming Class. Proceedings of the 2nd International Conference on Information Technology: Research and Education (ITRE 2004). London Metropolitan University, London, UK, June 28 -July 1. T. Boyle, P. Oriogun and A. Pakstas (Eds.), pp. 101-105.

Daniels, L., Floyd, D., Rice, D., Lundee, C. (2004) Effects of Legislated High Stakes Testing on Public Schools in Four States. Proceedings of the National Association of Research in Science Teaching (NARST), April 1-4, Vancouver, BC, pp. 150.

Slator, B.M., **Daniels, L.M.**, Saini-Eidukat, B., Schwert, D.P., Borchert, O., Hokanson, G., Beckwith, R.T. (2003). Software tutors for scaffolding on Planet Oit. Proceedings of the 3rd IEEE International Conference on Advanced Learning Technologies. Athens, Greece, July 9-11, pp. 398-399

Borchert, O., Bergstrom, A., Brandt, L., Brantsig, R., Burns, W., Clark, J.T., Cosmano, B., **Daniels, L.**, Dischinger, B., Dorothy, J., Duncan, J., Eichele, D., Erickson, K., Fisher, S., Frovarp, R., Goldade, E., Grimsrud, C., Hawley, J., Hill, C., Hokanson, G., Jockheck, B., Johnson, C., Johnston, E., Juell, P., Kranitz, R., Landrum, J., Li, M., Mack, J., Majeed, A., Martindale, K., McClean, P., Muchow, D., Opgrande, J., Padmanabhan, G., Regan, P., Rittel, C., Rogers, R., Saini-Eidukat, B., Schwert, D.P., Slator, B.M., Small, D., Snider, D., Tomac, S., Vantine, L., Vender, B., Cassie, K., Vorthmann, C., White, A.R., Wu, S., Zuroff, M. (2003). Advances in Immersive Virtual Worlds for Science Education. Proceedings of the Midwest Instructional Computing Symposium (MICS). April 11-12, Duluth, MN.
http://www.micsymposium.org/mics_2003/proceedings.html

Slator, B.M., Clark, J.T., **Daniels, L.M.**, McClean, P., Saini-Eidukat, B., Schwert, D.P., White, A.R., Hill, C. (2002). Immersive virtual environments. Proceedings of the First Annual Beyond Boundaries Conference, September 19-20, 2002. Grand Forks, ND: University of North Dakota, pp. 5-9.

Juell, P., Smith, E., **Daniels, L.M.**, Shanmugasundaram, V. (2002). Learning objects: Pedagogy based structuring of course materials. Conference on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet, SSGRR2002, L'Aquila, Italy, July 29 to August 4 2002 (Invited Paper)

PRESENTATIONS:

Refereed Presentations

“Instructional Materials for Teaching Science through Virtual Immersive Environments: Geology Explorer and On-a-A-Slant.” (2006). NSF Instructional Materials Development Conference, Washington D.C., February 26-28

“Effects of Legislated High Stakes Testing in Four States.” Daniels, L.M., Floyd, D. (2005). National Association of Research for Science Teachers (NARST) Annual Conference, Dallas, TX, April 3-6

“Connecting the Dots: A Look at Pre-service Teachers, Dispositions, and Accountability” Overton, K., Wilhelm, A., Daniels, L. (2005). Hawaii International Conference on Education, Honolulu, HI, January 4-7

“Effects of Legislated High Stakes Testing on the Curriculum Landscape of Public Schools in 4 States,” (2004). Poster presentation, National Association for Research in Science Teaching (NARST) Annual Conference, Vancouver, BC, April 1-4

Invited Presentations

“WhyPod,” Presentation to NDSU faculty, October 16, 2006

“Principles and Applications of Classroom Management,” Presentation for “Classroom

Management of Diverse Learners” course, April 12, 2006

“Effects of Legislated High Stakes Testing on the Curriculum Landscape of Public Schools,”
Presentation for Student North Dakota Education Association (SNDEA), November 16, 2005

“High Stakes Testing in Early Childhood Education,” Presented for “Observation and Assessment
of Children” course, October 20, 2005

“Effects of Legislated High Stakes Testing on the Curriculum Landscape of Public Schools,”
CDFS brown bag graduate research seminar, September 12, 2005

“Overview of the Center for Science and Mathematics Education (CSME)”, NDSU Faculty
workshop, August 17, 2005

“Managing the Dissertation,” Presentation on doctoral research for Institutional Analysis and
Occupational and Adult Learning Program, April 18, 2005

“Teaching and Assessing for Authentic Learning,” Summer Workshop, NDSU, June 8-9, 2004

“Authentic Assessment” Presentation made to Computer Science seminar, February 24, 2004.

“Diverse Learners and What to Do with Them,” Presentation for MeritCare Interns preparing for
educational presentations, February 13, 2004

“Authentic Learning and Assessment” Presentation for Anthropology seminar, February 11, 2004

Faculty in-service day for Northwood and Hattan Public Schools, August 19, 2003

“High Stakes Testing: Everyone’s Concern,” International Reading Association Conference,
Orlando, FL, May 2003, Invited Speaker

Faculty in-service day for Wahpeton Public Schools, January 31, 2003

GRANTS AWARDED / IN REVIEW:

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| 2006-09 | National Science Foundation (NSF): Visualization in Biology Education (Co-PI). 3 years (08/06-07/09) \$497,028 |
| 2006-08 | National Science Foundation (NSF): Pilot Project: Research on Serious Games for Geoscience Education (Co-PI) 2 years (08/15/06 -08/14/08) \$149,984 |
| 2005-08 | National Science Foundation (NSF): Instructional Materials for Teaching Science Through Virtual Environments (PI). 3 years. (March 1, 2005-February 28, 2008) \$727,282 |
| 2003-06 | U.S. Department of Education (DOEd): Visualizing Molecular and Cellular Biology Processes (Co-PI). 3 years. (September 1, 2003-August 31, 2006) \$495,430 |
| 2003-06 | National Science Foundation (NSF): Accelerating Computer Science Education (Co-PI). 3 years. (September 1, 2003-August 31, 2006) \$263,000 |

- 2004-05 North Dakota State University (Sponsored Programs Office): NDSU TPC (PI).1 year. (February 24, 2004-May 31, 2005) \$10,000
- 2004 National Science Foundation (NSF): A State University-Tribal Colleges Partnership to Initiate Systemic Changes to increase STEM content in K-12 Education (Co-PI). 1 year. (January 1, 2004-December 31, 2004) \$99,999
- 2002 North Dakota State University (Sponsored Programs Office): Instructional Development Grant (Co-PI). \$4000

GRADUATE STUDENT SUPERVISION:

Major advisor:

Joel Swanson, M.Ed., Science Education, Current
 Tessa Borkenhagen, M.Ed., Science Education, Current
 Lynn Kosel, M.Ed., Science Education, Current
 Lisa Foulkes, M.Ed., Science Education, Current
 Jill Wold, M.Ed., Science Education, Current
 Nathaniel Messick, M.Ed., Science Education, Current
 Karen Lietz, M.Ed., Science Education, Current
 David Himmelsbach, M.Ed., Science Education, Current
 Tim Fletcher, M.Ed., Science Education, Current
 Kim Addicott, M.Ed., Curriculum and Instruction, Current
 Misty Francis, M.Ed., Science Education, Current
 Carole DuRand, M.Ed., Science Education, Current
 Gerry Scherbenske, M.Ed., Science Education, August '06
 Susan Duffy, M.Ed., Science Education, August '06
 Scott Weigum, M.Ed., Science Education, August '06
 Jill Backland, M. Ed., Math Education, August '06
 Alison Hoeg, M.Ed., Curriculum and Instruction, November '05
 Kimberly Kraft, M.Ed., Math Education, August '05
 Kris Jost, M.Ed., Curriculum and Instruction, December '04
 Erin Layfield, M.Ed., Music Education, May '04
 Craig Murie, M.Ed., Math Education, May '04
 Stephanie Brink-Hoeper, M.Ed., Curriculum & Instruction, December '03
 Annie McKenzie, M.Ed., Curriculum & Instruction, August '03
 Rae Ann Vandrovec, M.Ed., Curriculum & Instruction, Spring '03

Graduate Committee Membership:

Julie Lucier, M.S., Physical Education, Fall 2006
 Priya Joseph, M.S., Computer Science, Fall 2006
 Kiran Kattakindi, M.S., Computer Science, Fall 2006
 Narendra Bandaru, M.S., Computer Science, Summer 2006
 Martina Miteva, M.S., Computer Science, Spring 2006
 Hector Manuel Aybar Lopez, M.S., Computer Science, Spring 2005
 Linda Hope, M.Ed., Science Education, Spring 2006
 Sunil Nanam Kumar, M.S. Computer Science, Fall 2005
 Abby Hearn, M.S. Physical Education, Fall '04

Curt Hill, Ph.D., Computer Science, Spring '04
Jenny Swenson, M.S. Physical Education, Fall '03
Aaron Tank, M.S., Science Education, Fall '03