

DR. ARTHUR W. BANGERT
CURRICULUM VITA

Education

- August, 1995 Ed. D., Educational Psychology
University of South Dakota, Vermillion, SD
Major: Educational Research and Evaluation
- May, 1991 Ed. S., School Psychology
University of Nebraska-Kearney, Kearney, NE
- August, 1979 M. S., Guidance and Counseling
Youngstown State University, Youngstown, OH
- March, 1975 B. A., Biology/Secondary Education
Kent State University, Kent, OH

Professional Experience

- 2008 – Present Associate Professor, Department of Education, Montana State University,
Bozeman, MT
- 2002 – 2007 Assistant Professor, Department of Education, Montana State University,
Bozeman, MT.
- 1999-2002 Assistant Professor of School Psychology, Idaho State University,
Pocatello, ID.
- 2002-Present Capella University, Minneapolis, MN – Adjunct Faculty
- 1996 -1999 School Psychologist, Northeast Wyoming BOCES, Gillette, WY
- 1994 -1996 Adjunct and Assistant Professor, Dept. of Counseling and Psychology in
Education, College of Education, University of South Dakota, Vermillion,
SD.
- 1994 Summer Research Intern for the American College Testing Program
(ACT)
- 1990 -1996 School Psychologist, Lennox Public Schools, Lennox, SD
- 1986 -1989 Test Consultant, The Psychological Corporation
- 1984-1985 Guidance Counselor Lockwood Public Schools, Billings , MT
- 1984-1986 Guidance Counselor Jolie Public Schools, Joliet , MT
- 1975-1982 Life Science and high school biology teacher , Southeast Local Schools,
Ravenna, OH

Teaching

Montana State University, 2002 - present

- Educational Statistics I (Masters) – both online and face to face.
- Educational Statistics II (Doctoral) - both online and face to face.
- Applied Educational Research (Graduate)-both online and face to face.
- Quantitative Research Methods (Doctoral)-both online and face to face.
- Assessment and Evaluation in Education (Masters)
- Foundations of Educational Assessment (Undergraduate).
- Data Driven Decision-Making (Doctoral)

Idaho State University, 1999-2002

- Individual Intelligence Testing
- Diagnostic Evaluation of Learning Difficulties
- Psychological Assessment
- Advanced Child Psychology
- Applied Educational Statistics
- Research and Writing

Research

Publications, Peer Reviewed Journals

Arbaugh, B., Bangert, A.W., & Cleveland-Innes, M. (in press). Subject matter effects and the Community of Inquiry (CoI) framework: An exploratory study, *Internet & Higher Education*.

Bangert, A.W. (2009). Building a validity argument for the community of inquiry survey instrument, *The Internet and Higher Education*, 12(2), 104-111.

Bangert, A.W. (2008). The Development and Validation of the Student Evaluation of Online Teaching Effectiveness. *Computers in the Schools*.

Bangert, A.W. (2008). The effects of social presence and teaching presence on the quality of critical inquiry for a web-based statistics course. *Journal of Computing in Higher Education*, 20(1), 34-61.

Bangert, A.W. & Easterby, L. (2008). Designing and delivering online nursing courses with the Evolve electronic classroom. *Computers, Informatics, Nursing*

Brody, M., Bangert, A.W., & Dillon, J. (2007). *Assessing learning in informal science contexts*. Paper commissioned by the National Academies of Science (National Research Council's Board of Science Education, *Committee on Learning Science in Informal Environments*).

Bangert, A.W. & Kelting-Gibson, L. (2006). Teaching principles of assessment literacy

- through teacher work sample methodology. *Teacher Education and Practice*, 19(3), 351-364.
- Bangert, A.W. (2006). The development of an instrument for assessing online teaching effectiveness. *The Journal of Educational Computing Research*, 35(3), 227 – 244.
- Jones, R.M. & Bangert, A.W. (2006) The CSI Effect: Changing the face of science. *Science Scope*, 30(3), 38-42.
- Bangert, A. W. (2005). Identifying factors underlying the quality of online teaching effectiveness: An exploratory study. *Journal of Computing in Higher Education*, 17(2), 79-99.
- Bangert, A.W. (2005). The Seven principles of effecting teaching: A framework for designing, delivering and evaluating an internet-based assessment course for nurse educators. *The Nurse Educator*, 30(5), 221-225.
- Edwards, G.D., Bangert, A.W., Cooch, G., Shinfuku, N., Tao, C., Yongyi, B., Rappe, P. (2005). The impact of sibling status on chinese college students' quality of life. *Social Behavior and Personality*, 33(3), 227-242.
- Bangert, A. W. & Baumberger (2005). Research designs and statistical techniques used in the Journal of Counseling & Development, 1990 -2001. *The Journal of Counseling & Development*, 83, 480-487.
- Bangert, A.W. (2004). The seven principles of good practice: A framework for Evaluating online teaching. *The Internet and Higher Education*, 7(3), 217-232.
- Bangert, A.W. (2003). An exploratory study of the effects of peer assessment activities on student motivational variables that impact learning. *The Journal of Student Centered Learning*, 1(2), 69-76.
- Denner, P., Salzman, S. & Bangert, A.W. (2001). Linking teacher assessment to student performance: A benchmarking, generalizability, and validity study of the use of teacher work samples. *Journal of Personnel Evaluation in Education*, 15, 287-307.
- Bangert, A.W. & Baumberger, J.P. (2001, Winter). Designing effective prereferral interventions: Key questions the school counselor should know and ask. *Professional Issues in Counseling*, Retrieved February 19, 2003, from <http://www.shsu.edu/~piic/winter2001/indexwinter01.html>
- Bangert, A.W. (2000). Peer assessment: A win-win instructional strategy for both students and teachers. *The Journal of Cooperation and Collaboration in College Teaching*, 10, 77-85.
- Bangert, A.W. & Cooch, C.G. (2001). Facilitating teacher assistance teams: Key questions the principal should know and ask. *The NASSP Bulletin*, 85, 62-67.
- Baumberger, J.P. & Bangert, A.W. (2001). The mozart effect and students with disabilities. *Contributions to Music Education*, 28(2), 81-103
- Baumberger, J. P. & Bangert, A. W. (1996). Research designs and statistical techniques used in the Journal of Learning Disabilities, 1989 - 1993. *Journal of Learning Disabilities*, 29(3), 313-316.
- Wolfe, E. W., Bolton, S., Feltovich, B., & Bangert, A. (1996). A study of word processing experience and its effect on student essay writing. *Journal of Educational Computing Research*, 14(3), 269-283.
- Bangert, A.W. (1995). Peer assessment: An instructional strategy for effectively implementing performance – based assessments (Doctoral Dissertation, University of South Dakota, 1995. *Dissertation Abstracts International*, 56, 3505.

Book Chapters

Bangert, A.W. & Rice, K. (2009). What we know about assessing online learning in elementary and secondary schools. In L.T.W. Hin & R. Subramaniam (Eds.), *Handbook of Research on New Media Literacy at the K-12 Level: Issues and Challenges*. Hershey, USA: Information Science Reference.

Manuscripts in Progress

M McAleer, D. & Bangert, A.W. (in progress). Professional growth through online mentoring: A study of mathematics mentor teachers.

Bangert, A.W. (in progress). Using experimental and quantitative research methods to investigate the efficacy of online instructional practices.

Published Proceedings

Bangert, A. W. (2006). Assessing the effects of social and teaching presence on the quality of critical inquiry for online discussions. *Proceedings of Society for Information Technology and Teacher Education International Conference, USA, 280-286*.

Bangert, A.W. (2005). Using web-based instructional environments to support the seven principles of effective teaching. *Proceedings of Society for Information Technology and Teacher Education International Conference, USA, 840-845*.

Lockhart, M.L. & Bangert, A.W. (2004). Assessment strategies for teaching in the online environment. *Proceedings of E-Learn 2004, USA, 379-381*.

Publications, Non - refereed

Bangert, A.W. (2004). Two traditions for assessing student achievement. Unpublished Manuscript, *Montana State University Teaching and Learning Committee Website*.

Presentations at National/ International Conference Presentations (competitively selected).

Arbaugh, J.B., Bangert, A.W., & Cleveland-Innes, M. (2009, March). Subject matter effects and the community of inquiry framework. Paper presented at the American Educational Research Association, San Diego, CA.

Brody, M., Bangert, A., & Dillion, J. (2007, November). Role of Assessment in Conservation Education: Strategic Directions for Practice and Research. Paper presented at the National Association of Environmental Education, Norfolk, VA.

Brody, M., Bangert, A., & Dillion, J. (2007, November). Role of Assessment in Environmental Education: Strategic Directions for Practice and Research. Paper presented at the National Association of Environmental Education Research Symposium, Norfolk, VA.

Bangert, A.W. (2007, April). Investigating educational leadership doctoral candidates learning of

- data driven decision making. Paper presented at the Annual Meeting of the American Educational Research Association. Chicago, IL.
- Bangert, A., Brody, M., Hendrick, C., Kawulich, B., McNiff, J., & Whitehead, J. (2006, April). Action research in the public's best interest. Paper presented at the Annual Meeting of the American Educational Research Association. San Francisco, CA.
- Bangert, A. W. (2006, March). Assessing the effects of social and teaching presence on the quality of critical inquiry for online discussions. Paper presented at the Society for Information Technology and Teacher Education International Conference. Orlando, FL.
- Bangert A.W. (2005, April). The development of a student evaluation of online teaching effectiveness. Paper presented at the 16th Annual Teaching and Learning Conference. Jacksonville, FL.
- Bangert, A.W. (2005, March). Using web-based instructional environments to support the seven principles of effective teaching. Paper presented at the Society for Information Technology and Teacher Education International Conference. Phoenix, AZ.
- Lockhart, M.L. & Bangert, A.W. (2004, November). Assessment strategies for teaching in the online environment. Paper presented at the World Conference on E-learning in Corporate, Government, Healthcare, & Higher Education, Washington, DC.
- Bangert, A.W. (2004, April). Key issues for designing and delivering internet-based educational statistics courses. Paper presented at the Fifteenth Annual International Teaching and Learning Conference. Jacksonville, FL.

Presentations at National/ International Conference Presentations (competitively selected)

- Bangert, A.W. (2003, April). Peer Assessment: An Innovative Instructional Strategy for Enhancing Student Learning. Paper presented at the Fourteenth Annual International Teaching and Learning Conference. Jacksonville, FL.
- Salzman, S.A., Denner, P. R., Bangert, A.W. & Harris, L.B. (March, 2001). Connecting Teacher Performance to the Learning of All Students: Ethical Dimensions of Shared Responsibility. Paper presented at the Annual Meeting of the American Association of Colleges for Teacher Education. Dallas, TX.
- Bangert, A.W. (1997, March). *The Instructional and Motivational Benefits of Peer Assessment*. Poster session presented at the Annual Meeting of the American Educational Research Association. Chicago, Illinois.
- Rachor, R. & Bangert, A.W. (1995, April). *Further Empirical Investigation into the Reliability of Gain and Modified Gain Scores*. Poster session presented at the Annual Meeting of the American Educational Research Association, San Francisco.

Presentations at Regional Conferences (competitively selected)

- Colt, D. & Bangert, A.W. (2009). *An Investigation of critical inquiry among online mathematics teachers*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Jackson, WY.

- Bangert, A.W. (2008, October). *Validity Evidence for the Community of Inquiry Framework Survey Instrument*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Lake Tahoe, NV.
- Bangert, A.W. & Jones, R.M. (2007, October). *The Influence of Informal Learning on Students' Dispositions Toward Careers in Science, Technology, Engineering and Mathematics*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Jackson, WY.
- Bangert, A.W. (2006, October). *The challenges of implementing a virtual high school: A rural perspective*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Sun Valley, ID.
- Bangert, A.W. (2005, October). *A validation study of the student evaluation of online teaching effectiveness*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Jackson, Hole, WY.
- Jones, R.M. & Bangert, A.W. (2005, October). *The changing face of science: 7th grade female science students changing their perception of what a scientist looks like*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Jackson, Hole, WY.
- Bangert, A.W. & Gibson-Kelting, Lynn (2003, November). *Demonstrating Design Principles for Quality Standards-Based Assessments Through Teacher Work Sample Methodology*. Colorado Regional Higher Education Assessment Conference. Greeley, CO.
- Bangert, A.W. (2003, October). *Bridging the Gap Between Assessment Theory and Practice Using Teacher Work Sample Methodology*. Presented at the Annual Meeting of the Rocky Mountain American Educational Research Association, Jackson, Hole, WY.

Research Reports

- Bangert, A.W. (2009). *Assessing writing to improve proficiency for college: Evaluation Report for the Bozeman Title II–Improving Teacher Quality Grant*. Helena, MT: Office of the Commissioner of Higher Education.
- Bangert, A.W. (2005). *Student performance by content standard on the Montana comprehensive assessment system, phase 2 (MontCAS). Montana criterion-referenced test – spring 2004, 1st administration*. Helena, MT: Office of Public Instruction.

Competitively Funded Grants

- 2009 – Principle Investigator for the Montana Southwest Science Partnership MSP grant partnership with Montana Tech University, \$33,000.
- 2008- Principle Investigator for the TITLE II – IMPROVING TEACHER QUALITY GRANT "Developing Writing Proficiency for College Success", \$29,747
- 2007 - Co-Principle Investigator for the TITLE II – IMPROVING TEACHER QUALITY GRANT "Developing Writing Proficiency for College Success", \$29,747.
- 2006 - Co-Principle Investigator for the TITLE II – IMPROVING TEACHER QUALITY GRANT "Developing Writing Proficiency for College Success", \$35,642.
- 2006 – Professional Faculty Development Leave grant to attend the Data Analysis Institute of Connecticut workshop on Structural Equation Modeling, \$2,150.
- 2005 - Co-Principal Investigator for the TITLE II – IMPROVING TEACHER QUALITY GRANT "Using Assessment to Improve Student Writing, \$17,920.
- 2005 – Professional Faculty Development Leave grants to attend the Data Analysis Institute of

- Connecticut workshop on Hierarchical Linear Modeling, \$1,930
- 2005-Montana State University Department of Education research grant to study the assessment literacy of K-12 teachers, \$1,500.
- 2004 – Montana State University Department of Education research grant to design and validate a student evaluation of online teaching effectiveness instrument, \$1,500.

Unfunded Grants

- 2008- Assessment of Quality Online Teaching (AQOT) for High School Mathematics and Science teachers. Institute of Education Sciences, U.S. Department of Education, \$450,744.
- 2005 – Technology and Assessment Literacy: A Context for Applied Research and Psychometric Experiences for Postdoctoral Fellows. Institute of Education Sciences, U.S. Department of Education, \$161,492.
- 2005 – Enhancing Student Learning by Integrating Technology-Rich STEM Units in Rural Montana. Information Technology Experiences for Students and Teachers (ITEST), U.S. Department of Education, \$1,439,838.

Pending Grants

- 2009- Resubmission of the Assessment of Quality Online Teaching (AQOT) for High School Mathematics and Science teachers. Institute of Education Sciences, U.S. Department of Education, \$271,834.

Service

University Service

- Member of the Academic Technology Advisory Committee, 2009
- Committee Member for the MSU Assessment and Outcomes Committee, 2003 - present
- Committee Member for the MSU Grievance Committee, 2003 – 2008
- Department of Education Faculty Senate Representative, 2007- present
- Member of the Student Conduct Hearing Board, 2004-present

Department Service

- Promotion and Tenure Committee, 2005, 2006, 2007 and 2009
- College of Education Scholarship Committee, 2006 –2007
- Science Education Faculty Search Committee, 2006-2007
- Technology Education Faculty Search Committee, 2005- 2008

- Standard Leader for NCATE accreditation, 2005-2006
- Language Arts Faculty Search Committee, 2003-2004
- Educational Leadership Faculty Search Committee, 2004 – 2007
- Instructional Computer Committee, 2002 – present

Scholarly Service

- President – elect for the Northern Rocky Mountain Educational Research Association (NRMERA). Regional NRMERA representative for the state of Montana.
- Manuscript Reviewer for: Journal of Student-Centered Learning, Journal of Educational Computing Research, Internet and Higher Education and AR Expeditions.
- Co-chair for AERA Action Research Special Interest Group, 2007- 2009.
- Reviewer for the book: SPSS for Intermediate Statistics published by Erlbaum.
- Reviewer for the American Educational Research Association Action Research SIG, annual meetings 2005 and 2006.
- Proposal reviewer for Northern Rocky Mountain Educational Research Association.
- Discussant for 2006 AERA Annual Meeting Action Research SIG held in Chicago, IL
- Discussant for the 2006 NRMERA annual meeting held in Sun Valley, ID

External Service/Community Outreach

- Committee Member – Technical Advisory Committee (TAC) - The Montana Comprehensive Assessment System (MontCAS). January, 2003 to present.
- Committee Member for the Montana University System Writing Proficiency Committee.
- Presented “Bridging the Gap Between Assessment Theory and Practice Using Teacher Work Sample Methodology at the Office of Public Instruction Assessment Conference, Helena, MT. April, 2006.
- Presented survey results to the Certification Standards and Practices Assessment Advisory Group (CSPAC), January, 2007.

External Service/Community Outreach

- Evaluator for the Southwest Montana Science Partnership Grant, 2008 – present.
- Committee Member - Certification Standards and Practices Assessment Advisory Group. January, 2003 -2004.
- Internal Evaluator – Bridging the Gap Technology Grant coordinated by Poplar Public Schools, Poplar, MT. 2005 -2006.
- Internal Evaluator - Computers Helping Individuals Learners Develop (CHILD) grant

- consortium -2003-2004.
- Committee Member – Assessment Task Force for the Montana University System. – 2004 to 2005.
- School psychologist for the Bozeman, Manhattan and Three Forks School Districts - September, 2002 through June, 2003.

Professional Development

Professional Affiliations

- Association for the Advancement of Computing in Education (AACE)
- American Educational Research Association (AERA)
- Northern Rocky Mountain Educational Research Association (NRMERA)

Conferences/Workshops

- Attended WebCT Introductory Training at the Burns Center, September, 2003.
- Attended the “Accreditation, Accountability, and Quality: An Institutional Orientation and Professional Development Conference”. This conference providing training for documenting evidence for meeting NCATE Standards I (Candidate, Knowledge Skills and Dispositions) and II (Unit Assessment System). April 27-30, Washington, DC.
- Training in Hierarchical Linear Modeling Data Analysis Techniques at the Data Analysis Institute of Connecticut. June 4 – 10 at the University of Connecticut – Storrs. Taught by Anne Connell and Besty McCoach.
- Training in Structural Equation Modeling at the Data Analysis Institute of Connecticut. June 18-22 at the University of Connecticut – Storrs. Taught by Dave Kenny
- Training in Item Response Theory at the University of Massachusetts-Amherst. July 27 through August 3, 2008. Taught by Ron Hambelton, Craig Wells, Lisa Keller and Jennifer Randall.

Professional Certifications

- State of Montana Educator License – School Psychologist; Expiration: 6/12
- Nationally Certified School Psychologist (NCSP # 30857). Expiration:10/12

Awards

- 2006 Outstanding Teacher for the Department of Education at Montana State University.

