

**Claudia Khourey-Bowers
Curriculum Vitae**

Academic Address

6000 Frank Ave. N.W.
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Home Address

2613 Fordham Circle N.W.
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EDUCATION

Doctor of Philosophy, Science Education, Curriculum and Instruction. Kent State University, 1995. Dr. Doris Simonis and Dr. James Henderson, advisors.

Post-graduate coursework in Physics, Geology and Mathematics, 1984 -1991.

Master of Science, Biology, University of Akron, 1981. Dr. Daniel Ely, advisor.

Bachelor of Science, Zoology, cum laude, The Ohio State University, 1975.

State of Ohio Permanent Teaching Certificate, Comprehensive Science, Grades 7 - 12.

PROFESSIONAL EXPERIENCES

Primary Employment History

Associate Professor, Teaching, Leadership & Curriculum Studies, Kent State University-Stark, 2006 – Present.

Assistant Professor, Teaching, Leadership & Curriculum Studies, Kent State University-Stark, 2000 – 2006.

Science Curriculum Specialist, Canton City Schools, 1996 - 2000.

Instructor, Kent State University, Graduate School & College of Education. 1997 - 2000.

Science Teacher, Canton City Schools, in Physics, Biology, Techniques of Scientific Research, Physical Science, Earth Science & Life Science 1985 - 1996.

Current Externally Funded Responsibilities

Principal Investigator, Conceptual Biology for Teachers of Grades 6 - 12, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2009, \$115, 425

Sabbatical Spring 2009

Collaboration with Dr. Miguel Doria, International Hydrological Programme, UNESCO's Science Sector in Paris, France, on development of "freshwater education curriculum for sustainability" for global distribution.

PUBLICATIONS

Articles

Khourey-Bowers, C. (2009). Macro Models for Micro Concepts: Exploring the Particulate Nature of Matter. *Science Scope*. Dec.2009, in press.

Khourey-Bowers, C. & Fenk, C. (2009). Influence of constructivist professional development on chemistry content knowledge and scientific model development, *Journal of Science Teacher Education*, 20(5): 437-457. DOI: 10.1007/s10972-009-9140-0

Khourey-Bowers, C. and Croley, C. (2007). Art detectives. *Educational Leadership*. 64(8): 51 - 52.

Khourey-Bowers, C. (2006). Structured Academic Controversy: A Peaceful approach to controversial issues. *The American Biology Teacher* 68(5). Online publication only at: <http://www.nabt.org/sub/pdf/068-05-0008.pdf>

Khourey-Bowers, C. (2005). Emergent reflective dialogue among pre-service teachers mediated through a virtual learning environment. *Journal of Computing in Teacher Education* 21(4):85-90.

Khourey-Bowers, C. (2005). Designing an effective and personalized virtual learning environment. *AURCO Journal* 11:117-127.

Khourey-Bowers, C., Dinko, R. & Hart, R. G. (2005). Influence of a shared leadership model in creating a school culture of inquiry and collegiality. *Journal of Research in Science Teaching*. 42(1): 3 - 24.

Khourey-Bowers, C. (2005). Cultivating positive attitudes and higher achievement in middle level mathematics and science. *Middle School Journal* 36(3):50 - 56. January 2005.

Khourey-Bowers, C. & Simonis, D. (2004). Longitudinal study of middle grades chemistry professional development: Enhancement of personal science teaching self-efficacy and outcome expectancy. *Journal of Science Teacher Education* 15(3): 175-195.

Khourey-Bowers, C. (2002). Canals in the curriculum: A Model of integration and inquiry.” *ScienceScope*. October 2002: 39 - 42.

Khourey-Bowers, C. and Croley, C. (1995). Upsetting the Newtonian applecart: The Integration of art and physics. *The Science Teacher*. 62:18-23.

International Reprint

Khourey-Bowers, C. & Simonis, D. (2004). Longitudinal study of middle grades chemistry professional development: Enhancement of personal science teaching self-efficacy and outcome expectancy. *Journal of Science Teacher Education* 15(3): 175-195. At: <http://www.standards.dfes.gov.uk/research/themes/cpd/ofcontinuing/>

Book Chapter

Khourey-Bowers, C. (2009). Intercultural approach to science education through constructivism and the four pillars, Eds.) White, A. & Berlin, D. in *Promising Practices to Meet Global Challenges in Science and Mathematics Education*, in press.

Web Module

Khourey-Bowers, C. (2008.) *Structured Academic Controversy*. (invited) Part of the series, Pedagogy in Action: Science Education Resource Center, Carleton College. At: <http://serc.carleton.edu/sp/library/pedagogies.html>

Professional Evaluations and Reports

Annual Evaluations of MSP Teacher – Coaches, submitted to National Science Foundation, on behalf of Stark County Education Service Center, May 2005 - 07.

Final Evaluation of The CROSSROADS Project, submitted to Ohio Board of Regents, On behalf of Walsh University, May 2005.

Annual Evaluation of Conceptual Chemistry 2004, 2003, 2001 submitted to Ohio Board of Regents, on behalf of Kent State University, Spring 2005, 2004, & 2002.

Annual Evaluation of Partners for Peace, submitted to The Paul and Carol David Family Foundation, on behalf of J.R. Coleman Center, January 2005. 2004, & 2003.

Final Evaluation of PeaceBuilders and Bullying Prevention Program, on behalf of Canton City Schools, submitted to U.S. Justice Department, July 2004.

Interim Report of “PeaceBuilders and Bullying Prevention Programs” for Canton City Schools, March 2003.

“Heartbeats to the City,” submitted to the Stark County Foundation, on behalf of Canton City Schools, April 2001.

“Entry Year Program Report 1999 - 2000, for Canton City Schools,” submitted to the Center for Teaching Profession, Ohio Dept. of Education, November 2000.

“Evaluation of Operation Physics,” submitted to Ohio Board of Regents annually, on behalf of Kent State University, 1997, 1998, and 1999.

“Evaluation of Operation Chemistry,” submitted to Ohio Board of Regents, annually, on behalf of Kent State University, 1993, 1995, and 1996.

PRESENTATIONS

International and National Professional Meetings

Khourey-Bowers, C. “The confluence of constructivism and policy into Intercultural science education,” National Association for Research in Science Teaching (NARST) 2009 International Conference, Los Angeles, CA April 18, 2009.

Khourey-Bowers, C. and Gerbig, D. “Design template for ecology professional development: Dimensions in ecological thinking,” National Association for Research in Science Teaching (NARST) 2009 International Conference, Los Angeles, CA April 18, 2009.

Khourey-Bowers, C., Heron, M., & Wilfong, L. “From You Tube to You Think: Using multimedia for elaboration and evaluation of students’ thinking about STEM. National Science Teachers Association, New Orleans, March 16, 2009.

Khourey-Bowers, C. Role of values and misconceptions in designing water education for Sustainability,” UNESCO-IHE North America and Europe Water Education Forum, Delft, The Netherlands, February 26, 2009. Conference Proceedings: Towards Strategies with Impact in Water Education Proceedings of the UNESCO Regional Workshop on Water and Education in Europe and North America 26 – 27 February, 2009.
<http://www.unesco-ihe.org/UNESCO-Water-Education-Workshop-in-Europe-and-North-America/Final-Draft-Proceedings-Water-Education-Workshop>

Khourey-Bowers, C. “Education for All: The Four Pillars and Constructivism in International Science Education,” 2008 International Consortium for Research in Science and Mathematics Education, Quito, Ecuador, May 14, 2008.

Khourey-Bowers, C. and Fenk, C. “Influence of Chemistry Professional Development Program on Chemistry Content Knowledge,” National Association for Research in Science Teaching (NARST) 2007 International Conference, St. Louis, April 16, 2007.

Khourey-Bowers, C. “Quality Science Lessons: Trends and Questions about 8th and 9th grade lessons,” submitted to the Assoc. for Science Teacher Education 2006 International Conference, Portland, OR, Jan. 2006.

Finer, K., Fox-Cardamone, L., Heaphy, L. & **Khourey Bowers, C.** Design and implementation of a multidisciplinary course linking science and public policy, presented at the American Society for Microbiology, 105th General Meeting, Atlanta, GA. June, 2005.

Khourey-Bowers, C. & Dinko, R. "Relationship between professional development and student achievement," National Association for Research in Science Teaching (NARST) 2005 International Conference, Dallas, April 6, 2005.

Khourey-Bowers, "Evaluating discussion as a learning strategy," presented as part of the KSU Early Career Teaching Scholars Learning Community at the Lily-West Annual Conference, Pomona, CA, March 18, 2005

Weinstein, M., Sherman, W., **Khourey-Bowers, C.**, & Gilbert, A. "But How Do We...? Case Studies in Program Development," Association for the Education of Teachers of Science (AETS) 2005 International Conference, Colorado Springs, CO, Jan. 22, 2005.

Khourey-Bowers, C. and Dinko, R. "Relationship between professional development and student achievement," Association for the Education of Teachers of Science (AETS) 2005 International Conference, Jan. 20, 2005.

Khourey-Bowers, C. "The town-gown conflict over Inquiry or Didactic Science: Accommodation of pre-service students," School Science and Math Assn. 2004 Annual Conference, Atlanta, GA, Oct.22, 2004.

Khourey-Bowers, C. and Dinko, R. "Realities and Perceptions in the Middle School Science Classroom," School Science and Math Assn. 2004 Annual Conference, Atlanta, GA, Oct. 21, 2004.

Arhar, J., **Khourey-Bowers, C.**, and Friesen, D. "Action research and school improvement," National Middle School Assn. 2004 Annual Conference, Minneapolis, MN, Nov. 4, 2004.

Khourey-Bowers, C., Rice, L., Wieland, J. and Yoder, M. "Transforming Big Ideas into Best Practice," National Science Teachers Association, 2004 Annual Conference, April 2, 2004.

Khourey-Bowers, C., Rice, L., Wieland, J. and Yoder, M. "A Peaceful Approach to Controversial Issues," National Science Teachers Association, 2004 Annual Conference, April 1, 2004.

Arhar, J. and **Khourey-Bowers, C.** "Professional development and school improvement through action research," National Middle School Assn. 2003 Annual Conference, Nov. 8, 2003.

Khorey-Bowers, C. “Designing Integrated Teaching Units,” Invited paper presented as part of the collaborative presentation, “How to Begin, Revise, and Continue to Develop an Excellent Middle Grades Program at the annual conference of the National Middle School Assn., Nov. 7, 2003.

Khorey-Bowers, C. “Addressing teachers’ beliefs about evolution through use of structured academic controversy,” School Science and Mathematics Assn. Annual Conference, Columbus, OH, Oct. 23, 2003.

Khorey-Bowers, C. “Community-based learning experiences.” Presented as part of “How to Begin, Revise, and Continue to Develop an Excellent Middle Grades Program National Middle School Assn Annual Conf, Portland, OR. Nov. 1, 2002.

Arhar, J. & **Khorey-Bowers, C.** “Studying your own classroom or school: An Action research approach,” National Middle School Assn 2002 Annual Conference, Portland, OR, Oct. 31, 2002.

Khorey-Bowers, C. & Dinko, R “Context beliefs of lead teachers: Implications for secondary science reform” National Association for Research in Science Teaching 2002 International Conference, New Orleans, April 9, 2002.

Finer, K., Barb, C. & **Khorey-Bowers, C.** “Promoting and modeling inquiry in a science content course” Pathways for Learning Symposium, Arlington, VA Apr 20, 2002.

Khorey-Bowers, C. “The Ohio-Erie Canal: A Model of Integration and inquiry.” National Science Teachers Assoc. Annual Conference, Columbus, OH Nov. 2001.

Khorey-Bowers, C. “Implementing a standards-based secondary science curriculum in an urban district.” National Association for Research in Science Teaching 2000 International Conference, New Orleans, April 2000.

Regional, State, and Local Professional Meetings

Khorey-Bowers, C., Donovan, W., Pourdavood, R., & Lovelace-Cameron, S.
“Statewide Partnerships in School Change and Research: How You Can Get Involved!”
National Science Teachers Association, 2009 Regional Conference, Cincinnati, OH
December 4, 2008.

Khorey-Bowers, C. & Smith, S. “From YouTube to YouThink: Using Popular Media to Uncover Students’ Thinking about Science:” National Science Teachers Association, 2009 Regional Conference, Cincinnati, OH December 4, 2008

Fenk, C., Gerbig, D., & **Khorey-Bowers, C.** “Conceptual Chemistry: DNA Extraction from Animal and Plant Cells-It’s Easier Than You Think,” Science Education Conference of Ohio (SECO), Akron, Ohio, February 8, 2008.

- Khourey-Bowers, C. & Christenson, S.** “Energizing Science,” Science Education Conference of Ohio (SECO), Akron, Ohio, February 7, 2008.
- Khourey-Bowers, C. & Christenson, S.** “Newton on the Cheap,” Science Education Conference of Ohio (SECO), Akron, Ohio, February 7, 2008.
- Khourey-Bowers, C. & Fenk, C.** “Influence of Professional Development on Chemistry Content Knowledge,” Content and Pedagogy for Mathematics and Science in Middle Schools and for Middle School Teacher Preparation conference, Columbus, Ohio, April 27, 2007.
- Khourey-Bowers, C.** “Teaching for conceptual change in middle grades science methods course,” Content and Pedagogy for Mathematics and Science in Middle Schools and for Middle School Teacher Preparation conference, Columbus, Ohio, April 26, 2007.
- Fenk, C. & **Khourey-Bowers, C.** “Conceptual Chemistry: Forensic Detection of Amino Acids, Proteins and Artificial Sweeteners,” Science Education Conference of Ohio (SECO), Dayton, Ohio, February 9, 2007.
- Fenk, C. & **Khourey-Bowers, C.** “Conceptual Chemistry,” Science Education Conference of Ohio (SECO), Akron, Ohio, February 17, 2006.
- Khourey-Bowers, C.** “Designing an Effective and Personalized Virtual Learning Environment,” AURCO annual conference, April 17, 2004.
- Khourey-Bowers, C. & Pelletier-Patrick, B.** “Praxis II is here, and Praxis III is coming!” Invited paper presented at the Ohio Art Education Assn. annual convention, Dayton, Nov. 19, 2002.
- Kist, W. & **Khourey-Bowers, C.** “Building a site-based education program with local middle schools.” Paper presented at the annual AURCO conference, Kent State University-Stark, April 2001
- Khourey-Bowers, C.** “Science and literacy.” Paper presented at the annual conference of the Science Education Council of Ohio, Cleveland, Feb. 2000.

Local Professional Meetings

- Khourey-Bowers, C. & Barb, C.** “Measurement,” workshop focusing on conceptual development and hands-on activities for elementary and middle school teachers, Canton, Ohio, June 20-21, 2005.
- Khourey-Bowers, C.** “Discussion: Developing student motivation through structured Engagement.” Presented to SATURN Lead Teachers meeting, February 17, 2005;

Massillon City School Middle School Science Study Group, March 22, 2005.

Khorey-Bowers, C. & Monger, G. Using outdoor education for inquiry-based learning. Fifth Annual Wildlife Conference of the Stark Park District, Malone College, Canton, OH Sept. 30, 2004.

Khorey-Bowers, C. "Inquiry strategies for elementary science," presented to Canton City Elementary teachers, May 12-13, 2004, KSU-Stark Campus.

Kline, D., **Khorey-Bowers, C.** and Bernstein, P. "Teaching Strategies in Biology for Large and Small Classes," at the Transforming University Teaching in Mathematics and Science NEOCEX Conference at KSU on April 28, 2004.

Khorey-Bowers, C. "Designing Engaging Lessons in Science," Invited presentation To SATURN Lead Teachers, Canton, OH, Nov. 20, 2003.

Khorey-Bowers, C. "Emergent and reflective dialogue mediated through a virtual learning environment," Presented as a Moulton Scholar in the series, Portraits of Practice – Building Community, Moulton Hall, KSU, Nov. 4, 2003.

Khorey-Bowers, C. "Evaluation of Student Teaching Experience using Pathwise Domains," presented at the MCED Cooperating Teachers' Informational Meeting, Kent State-Stark Conference Center, Aug. 18, 2003.

Khorey-Bowers, C. "Curriculum Connections," presented at the SATURN Summer 2003 Workshop, North Canton, OH, June 19, 2003.

Khorey-Bowers, C. "WebCT: A Lifeline for site-based programs." Paper presented to Ohio Middle School Professors' Fall Meeting, KSU-Stark, Oct. 18, 2002.

Finer, K., Barb, C. & **Khorey-Bowers, C.** "Promoting and modeling inquiry in a science content course." Paper presented at RECAM02 Conference, KSU-Stark, May 16, 2002.

Finer, K., Barb, C. & **Khorey-Bowers, C.** "Crossing the great divide: A Model of cross-disciplinary scholarship." Presentation at KSU-Stark for University faculty and administrators, Feb. 2002.

Bernstein, P., **Khorey-Bowers, C.** Barb, C. & Finer, K. "Inquiry strategies for undergraduate biology courses." Presentation at KSU-Stark for KSU Biology Department graduate students, Oct. 5, 2001.

Other Professional Activities

Early Career Faculty Learning Community Fellowship, KSU Faculty Professional Development Center, 2004-2005.

KSU Faculty Professional Development Fellowship, Spring 2003.

Consultant in curriculum design, Mayfield Heights City Schools, Mid-Ohio Educational Service Center, and various community-based organizations.

Member, Ohio Dept. of Education Exit Exam Science Proficiency Competencies Development Committee, 1998 - 1999.

President, Ohio Section of the American Association of Physics Teachers, 1998 - 1999.

Committee Member, Middle Childhood Licensure in Science Program Development, Kent State University, 1998 - 1999.

Committee Member, NASA's Yohkoh Public Outreach Project Educational Task Force, 1996 - 1998.

Committee Member, Teacher Preparation Task Force of the SciTEKS Project, American Chemical Society, 1994 - 1996.

TEACHING, ADVISING, AND SUPERVISION

KSU Undergraduate Courses

| | |
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| MCED 40010 Teaching and Learning in Middle Childhood | Fall 2000 –2007 |
| MCED 40092 Field Experience III | Fall 2000 - 2005 |
| MCED 30000 Curriculum and Organization in Middle Childhood | Spring 2001 – 2007 |
| MCED 30092 Field Experience II | Spring 2001 - 2005 |
| MCED 40002 Teaching Science in Middle Childhood II | Spring 2001- 2008 |
| MCED 49525 Inquiry into Professional Practice | Fall '01–'06, '08 & Spring 2008 |
| MCED 30002 Integrated Social Studies and Science Methods | Fall 2000 – 2005 |
| CHDS 20092 Field Experience I | Fall 2000 – Spring 2004 |
| EDPF 29525 Inquiry into Teaching and Learning | Spring 2001, Summer 2001 |
| MCED 42358 Student Teaching Supervision | Fall 2001, 2005, Spring 2006 |
| BSCI 10001 Human Biology | Fall 2000, Fall 2003 |
| US 10001 University Orientation | Spring 2003 |

KSU Graduate Courses

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| C & I 67095 ST: Conceptual Chemistry | Fall 2005 – 2008 |
| C & I 67002 Curriculum Leadership | Spring 2008- Fall 2009 |
| C & I 60010 Curriculum Evaluation | Fall 2007 |
| C & I 67095 ST: Designs & Strategies in Professional Development | Summer 2007 |
| C & I 51005 Conceptual Biology (workshop) | Summer 2007 |
| C & I 67095 ST: Conceptual Biology | Spring 2008, 2009 |
| C & I 60010 Fundamentals of Curriculum | Fall '06, '08, Spring '07, & Su '08 |
| C & I 60004 Professional Development for Teachers | Spring 2007 |
| C & I 47095 ST: Concepts, Controversies, and Catastrophes | Fall 2004 |
| C & I 47095 ST: AIDS: A Global Catastrophe | Fall 2005 |
| C & I 50093 Patterns in Nature (workshop) | Summer 2002 |
| SEED 52277/ 77234 Teaching Science in Secondary School | Fall 1997, Fall 1999 |

Advisory/Coordinator Responsibilities

Graduate Education Coordinator, Stark Campus, 2006- Present.

Mr. Raphael Kelani, 2007- May 2009. Co-advisor, dissertation phase. Completed Spring 2009.

Ms. Anita Levine, 2007 – Present, Member, dissertation phase

Ms. Wendy Tietz, 2004-2006 Minor advisor, advisory phase of doctoral committee (Major advisor was Dr. Joanne Arhar.)

EXTERNAL FUNDING

Khourey-Bowers, C. & Gerbig, D “Conceptual Biology for Teachers of Grades 6 - 12,” a professional development program in biology education pedagogy for teachers, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2009, \$115,425.

Gerbig, D. & **Khourey-Bowers, C.** “Conceptual Biology for Teachers of Grades 6 - 12,”

a professional development program in biology education pedagogy for teachers, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2008, \$126,365.

Khourey-Bowers, C. & Fenk, C. “Conceptual Chemistry for teachers of Grades 4 – 9,” a professional development program in chemical education pedagogy for teachers, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2008, \$143,367.

Fenk, C. & **Khourey-Bowers, C.** “Conceptual Chemistry,” a professional development program in chemical education pedagogy for teachers of grades 4 – 9, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2007, \$137,092.

Khourey-Bowers, C. & Fenk, C. “Conceptual Chemistry,” a professional development program in chemical education pedagogy for teachers of grades 3 – 8, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2006, \$134,000.

Fenk, C. & **Khourey-Bowers, C.** “Conceptual Chemistry,” a professional development program in chemical education pedagogy for teachers of grades 4 – 9, provided by a grant under the federally funded Improving Teacher Quality Program, administered by the Ohio Board of Regents, 2005, \$117,000.

Khourey-Bowers, C. Teaching and Learning Grant through Technology Advisory Council of the College and Graduate School of Education, Spring 2005, \$466.

Fox-Cardamone, L, Finer, K., Heaphy, L. & **Khourey-Bowers, C.** Linking science and civic engagement/course development. American Association of Colleges and Universities. 2003. \$3,500.00.

Finer, K., Bernstein, P., Barb, C. & **Khourey-Bowers, C.** “Promoting and Modeling Inquiry in a Science Content Course.” Funded through Project SUSTAIN/TIMSS, \$9, 500. 2000 - 2001.

Dinko, R. & **Khourey-Bowers, C.** Local systemic initiative for middle and high school science teachers, “SATURN,” Funded through National Science Foundation. \$1,100,000. 1999 - 2004.

Khourey-Bowers, C. & Mankins, N. “Grassroots Science Teacher-Leadership Institute,” funded by the National Science Foundation, \$736,098. 1994 - 1999.

Khourey-Bowers, C. Professional development program for promoting use of hands-on, minds-on science approaches for teachers of kindergarten through grade 5, “Elementary Science Kits,” funded through Martha Holden Jennings Foundation, \$24,000. 2000

Khourey-Bowers, C. & Bishop, G. Professional development program fusing science education and nonfiction reading skills, “Science and Literacy,” for teachers of grades 2 and 3. Funded by the Ohio Board of Regents, \$73,000, 1998 - 1999.

Khourey-Bowers, C. Minority teacher recruitment program, “Bridges II,” funded through the Ohio Department of Education, in collaboration with Kent State University, \$48,863, 1997 – 1998. Also funded through the Sisters of Charity Foundation, \$24,000, 1998.

Khourey-Bowers, C. “Studying Physics through Art: A Collaborative Enterprise,” funded through the Martha Holden Jennings Foundation Grants-to-Teachers Program, \$1,935, 1996.

Khourey-Bowers, C. Innovative teaching award, “Historical conceptions of time, space and light: Intertwining spheres of physics and art,” funded by the American Assn Of Physics Teachers, \$375. 1994.

Khourey-Bowers, C. Impact II Grants “Studying Physics through Art: A Collaborative Enterprise,” “ Hares, Hippos, Silk and Bambi Bring Biology to Life,” “ A Trip to the Land of Mitosis,” and “Techniques of Scientific Research,” funded through the Ameritech Corporation, each at \$300, 1992 - 1995.

Khourey-Bowers, C. & Carnes, L. Design and development of research course, Techniques of Scientific Research, funded by Canton City Schools Foundation, \$400. 1991.

Snyder, E. & **Khourey-Bowers, C.** Integration of computer-assisted instruction in Earth Science, receipt of computer hardware, funded by Canton City Schools Educational grant program, 1986.

SERVICE AND CITIZENSHIP

Service to Stark Campus

Chair, EFSS Search Committee, 2008 – 2009.

Mentor, Professor Moon-Heum Cho, 2009 -2010

Mentor, Professor Mary Pat Raupach, 2008 -2009

Mentor, Professor Deb Shelestak, 2008-2009

Member, Academic Planning Committee, 2007-2008.

Member, Committee II, 2007-2008.

Co-Chair, MCED/EFSS Search Committee, 2007 – 2008.

Member of Cabinet and Faculty Council, 2005-2006; Vice-Chair 2006-2007.

Coordinator, Faculty Council Teaching Circles, 2005-2006.

Faculty Council member, academic years 2004-2006.

Faculty advisor, Kent Stark Student Education Association, academic year 2004 – Present.

Member, Math-Science Partnership (MSP) Outreach Advisory Committee, 2004 - 2006.

Member, Campus Activities Budget Committee, 2004-2006.

Kent State Stark Dean Search Committee, 2004-2005.

Chair, Math Education Search Committee, 2003-2004.

Member, Math-Science Outreach Coordinator Search Committee, Summer 2004.

Member, Service Learning Committee, 2004 – 2005.

Mentor, for new adjunct faculty member in Stark MCED Program, Ms. Deb Miller,
2003-2004.

Co-ordinate and present at annual Spring Orientation session for incoming MCED
cohort, 2001- present.

Conduct interviews & review application files of approximately 25 MCED applicants for
Advanced Standing each semester, 2000 – Present.

Coordinate annual appreciation /orientation event for local teachers who provide field
and student teaching experiences for KSU-Stark MCED students. 2001- Present.

Member, Math Education Search Committee, 2001-2002.

Member, 2001 Distinguished Teaching Award Committee.

Assist in coordination of Annual Brain Awareness Week program for local teachers,
with Drs. Bagavandoss, Fox-Cardamone, Finer and Lovell, 2001- 2004.

Convener, Jamling Tenzig Norgay and Peter Hillary, March 19, 2003 and Dr. Jehan
Sadat, April 24, 2001, KSU-Stark Featured Speakers Program.

Presider, Midwest Writers Conference, Oct. 6 - 7, 2000.

Open House, Oct. 26, 2000 and April 29, 2002.

Service to Department

Member, Science Education Search Committee, 2007 – 2008.

Member, TLCS Faculty Advisory Council, 2005-2008.

Member, TLCS Curriculum Committee 2001- 2004.

Participated in MCED Summer Planning Retreat, 2003 and 2004.

Organized and hosted Ohio Middle School Assn. Professors' 2002 Fall Meeting.

Invited instructor for Kent Campus MCED Cohorts, Nov. 5, 2001.

Participated in NCATE program meeting with Science Education faculty.

Presented at Academic Receptions at Stark Campus, 2000 & 2001.

Hosted Middle Childhood Study Group at Stark Campus, Dec. 8, 2000.

Service to University / College / Regional Campuses

Member of CAC, College of Education, Health, and Human Services, 2006-2008.

Facilitator, Society, Culture & Education: A Global Exchange of Ideas. Public panel discussion, Nov. 13, 2007, Kent State University Stark.

Member, Undergraduate Appeals, COEHSS, Professional Standards, & Admissions, 2005- 2006.

Member, Symposium on Democracy Planning Committee, 2003-2004.

Proposal Reviewer, KSU Regional Center Educational Technology, 2000- Present.

Reviewer, AURCO Journal, 2001 – Present.

Member, University Council on Teacher Education, 2001- 2003.

Member, Regents Scholars Committee, 2001-2002.

Contributions to Professional Organizations

Grant Reviewer, National Institutes of Health, SEPA Program, December 2008.

Proposal Reviewer, National Association for Research in Science Teaching,
2009 Annual Conference.

Member, Committee on Collaboration, Centers of Excellence. 2007- 2008.

Manuscript Reviewer, *Science Education* and *Journal of Geoscience*, 2007 - present.

Proposal Reviewer, Association for Science Teacher Education 2006, 2005 Annual Conference. (formerly AETS)

Reviewed Teacher of the Year candidates for Stark County Teachers, Aug. 2003.

Read and reviewed 12 full proposals and participated in Grant Review panel discussions on funding recommendations for National Science Foundation, Oct. 23-24, 2002.

Conducted a review of current literature on “professional practice,” summarizing and interpreting the findings, and making recommendations on how the new pre-service teacher standards should reflect current research findings in conjunction with the National Science Teacher Assn. revision project for the Standards for Science Teacher Preparation, Standard 10, Professional Practice, September 2002.

Member of grant-writing team for NSF-MSP Initiative, with Stark County ESC, Spring 2002- Fall 2002.

Proposal Reviewer, National Science Foundation’s 2001 Presidential Awards for Excellence in Mathematics and Science Teaching program.

Membership in Professional Societies

American Association for the Advancement of Curriculum Studies. 2009 – Present.

National Association of Research in Science Teaching. 1994 - Present.

National Science Teachers Association. 1993 - Present.

Association for Science Teacher Education. 1996 - Present.

School Science and Mathematics Association. 1996 - 2005.

National Middle School Association. 2000 - Present.

National Association of Biology Teachers. 2003 - 2006.

Science Education Council of Ohio. 1992 - 2003.

American Assn. of Physics Teachers. 1990 – 2000.

Assoc. for Supervision, Curriculum, and Development. 1993 - 2000.

AWARDS AND COMMENDATIONS

David B. Smith Fellowship, Kent State University, 1994.

Phi Beta Kappa, The Ohio State University Epsilon Chapter, Columbus, Ohio, 1976.