

Research & Scholarly Activities

A. 1. Publications in Refereed Journals:

1. Tomasek, T. & **Matthews, C.** (2008). Using Reptile and Amphibian Activities in the Classroom. *Science Activities* 44 (4), 123 - 127.
2. Tomasek, T. & **Matthews, C.** & (2008). Toads give you warts, Not! *Science Activities* 44 (4), 129 - 132.
3. Patrick, P., **Matthews, C.**, Ayers, D. & Tunnicliffe, S. (2007). Conservation and education: prominent themes in zoo mission statements. *The Journal of Environmental Education* 38 (3), 53 - 60.
4. Bennett, K. & **Matthews, C.** (2005). Teachers in North Carolina's Environmental Education Certification Program. *The Journal of Environmental Education*, 36 (3), 15 - 21.
5. Tomasek, T., **Matthews, C.** & Hall, J. (2005). What's Slithering Around on Your School Grounds? *The American Biology Teacher*, 67 (7), 419 - 425.
6. Cooper, J., Ponder, G., Merritt, S. & **Matthews, C.** (2005). High-Performing High Schools: Patterns of Success. *National Association of Secondary School Principals. NASSP Bulletin*. 89 (645), 2 - 23.
7. Cooper, J. & **Matthews, C.** (2005). A decade of concern: A review of multicultural science education issues in *The Science Teacher*, 72 (3), 49 - 52.
8. Antonek, J., **Matthews, C.** & Levin B. (2005). A Theme-Based, Cohort Approach to Professional Development Schools: An Analysis of the Benefits and Shortcomings for Teacher Education Faculty. *Teacher Education Quarterly*, 32 (1), 131 - 150.
9. **Matthews, C.** & Cook, H. (2004). Herpetologist transports Third-Graders to Frogland. *Science Activities*, 41 (3), 26 - 34.
10. **Matthews, C.**, Strahan, D., Cooper, J., & Merritt, S. & Ponder, G. (2004). Heralded High Schools in North Carolina. *Snapshots: The Specialist Schools Trust Journal of Innovation in Education (Primary & Secondary editions, UK)* 2 (2), 19 - 22.
11. **Matthews, C.** & Monroe, L. (2004). Hands-on Hydrology. (2004). *Science Activities*, 41 (2), 13 - 22.
12. Cook, H., Hildreth, D. & **Matthews, C.** (2004). 'Hoeked' on Science. *Science & Children*, 41 (8), 42 - 46.
13. Somers, A., **Matthews, C.** Bennett, K., Seymour, S. & Rucker, J. (2003). Outdoor Adventures: Tracking Eastern Box Turtles. *Science Scope*, 27 (3), 32 - 37.
14. Cook, H., **Matthews, C.**, Hildreth, D. & Couch, E. (2003). Predation at the Shore. *Science Activities*, 40 (1), 8 - 15.

15. **Matthews, C.** & Bennett, K. (2002). Naturalist Writers and Environmental Sentiments. *Science Scope*, 26 (3), 22 – 27.
16. **Matthews, C.** & Connors, J. (2002). Observing Flat Birds and other Fun Birding Activities for K-12 Students. *Science Activities*, 39 (2), 13 - 17.
17. Vickers, V. & **Matthews, C.** (2002). Children and Place: A Natural Connection. *Science Activities*, 39 (1), 16 - 24.
18. **Matthews, C.**, Vickers, V. & Patrick, P. (2002). Acorns Alive. *Science Scope*, 26 (2), 14 - 17.
19. Appleget, J., **Matthews, C.** Hildreth, D. & Daniel, M. (2002). Teaching the History of Science to Students with Learning Disabilities. *Intervention in School and Clinic*, 37 (5), 298 - 303.
20. Hildreth, D., **Matthews, C.**, Hess, L. & Settle, R. (2002). Lights, Camera, Action... It's Science. *Science Activities*, 38 (3), 10 – 16.
21. Cummo, E. & **Matthews, C.** (2002). The Atomic Dating Game. *Science Scope*, 25 (4), 46 – 47.
22. Kirk, M., **Matthews, C.** & Kurtts, S. (2001). The Trouble with Textbooks. *The Science Teacher*, 68 (9), 42 – 45.
23. Davidson, C., **Matthews, C.** & Patrick, P. (2001). Meeting the Standards with Vanishing Frogs. *The American Biology Teacher*, 63 (5), 352 – 357.
24. **Matthews, C.** (2000). The Cormorant Controversy. *Science Scope*, 23 (7), 17-21.
25. King, J. & **Matthews, C.** (1999). The Northern Mockingbird: An Introduction to Ethology for High School Students. *Science Activities*, 36 (3), 27–32.
26. Baize, D. & **Matthews, C.** (1999). The Not-So-Aloof Luffa. *Science Activities*, 36 (2), 22-27.
27. **Matthews, C.** & Cook, H. (1999). Frances Hamerstrom: Wildlife Biologist. *Science & Children*, 36 (8), 37- 41.
28. **Matthews, C.**, McDuffie, K., Campbell, T., Walling, J., & Craig, J. (1999). Planetary Paths. *Science Scope*, 22 (8), 10-14.
29. **Matthews, C.** & Cummo, E. (1999). All Wrapped Up in Kudzu and other Ecological Disasters. *The American Biology Teacher*, 61 (1), 42-46.
30. Cook, H. & **Matthews, C.** (1998). Lessons from a “Living Fossil”. *Science & Children*, 36 (3), 16-19.

31. Barrett, W., & **Matthews, C.** (1998). Pocket Science. *Science Scope*, 20 (8), 39-40.
32. **Matthews, C.**, Binkley, W., Crisp, A., & Gregg, K. (1997). Challenging Gender Bias in Fifth Grade. *Educational Leadership*, 55 (4), 54 - 57.
33. Hildreth, D., & **Matthews, C.** (1997). Get a Kick out of Physics: Using the art of Tae Kwon Do to interest students in Physics. *The Science Teacher*, 64 (9), 34 - 36.
34. **Matthews, C.**, & Hildreth, D. (1997). Cicada Studies. *The Science Teacher*, 64 (6), 34 - 37.
35. Harvey, M., & **Matthews, C.** (1997). Swimming Pool Science. *The Science Teacher*, 64 (5), 35 -37.
36. **Matthews, C.**, Fargo, D., & Craig, J. (1997). Build An Interplanetary Scale. *Science Scope*, 20 (4), 24 – 26.
37. Levin, B., & **Matthews, C.** (1997). Using Hypermedia to Educate Preservice Teachers about Gender Equity Issues in Elementary School Classrooms. *The Journal of Research on Computing in Education*, 29 (3), 226 - 247.
38. Baber, C., Cox, B., & **Matthews, C.** (1996). Teaching and Learning English, Social Studies, and Science Together: An Experiment in Secondary Education at UNC-G. *North Carolina Journal of Teacher Education*, 8 (2), 80 - 97.
39. Bowman, F., & **Matthews, C.** (1996). Plant or Animal? *The Science Teacher*, 63 (4), 13 - 15.
40. **Matthews, C.** (1996). Fossil Finds. *Science Scope*, 19 (7), 13 - 16.
41. **Matthews, C.** (1996). An Illuminating Reaction. *The Science Teacher*, 63 (5), 30 - 31.
42. **Matthews, C.**, & Cook, H. (1996). Oh, Baby, What a Science Lesson! *Science &Children*, 33 (8), 18 - 21.
43. McDuffie, S., & **Matthews, C.** (1996). Antifreeze Solutions. *The Science Teacher*, 63 (1), 41 -43.
44. Allen, E., & **Matthews, C.** (1995). It's a Bird! It's a Plane! It's a ... Stereogram! *Science Scope*, 18 (7), 22 - 26.
45. **Matthews, C.**, Campbell, T., & Craig, J. (1995). Mooning in the Middle School. *Science Scope*, 18 (7), 40 - 44.
46. Charging, C., Drummond, J., **Matthews, C.**, & Smith, W. (1994). American Indian Youths' Attitudes toward Science. *GATES, (Greater Access to Technology, Engineering and Science)*, 1 (1), 14 -20 & 32.

47. **Matthews, C & Smith, W.** (1994). Native American Related Materials in Elementary Science Instruction. *Journal of Research in Science Teaching*, 31 (4), 363 - 380.
48. **Matthews, C.** (1994). Interactive Video: Reviewing science, stereotypes and society. *The Science Teacher*, 61 (3), 20 - 23.
49. **Matthews, C.** (1992). Snail Shell Science: A whelk-ome activity. *The Science Teacher*, 59 (4), 32 - 37.
50. **Matthews, C. & Umholtz, J.** (1984). Life on a Red Hills Ranch. *Kansas Wildlife*, p. 13.

A.2. Publications accepted with probable date of appearance in refereed journals:

51. Kurtts, S., Smallwood, T. & **Matthews, C.** (Dis)solving the Differences: A physical science lesson plan using universal design. *Intervention in School & Clinic*. January 2009.
52. Richardson, K., **Matthews, C.** & Thompson, C. Atlas Maps. *Science Scope*

Articles under review in refereed journals:

53. Harris, R. & **Matthews, C.** Constructing a Deeper Understanding of Mathematics through a unit on Pottery. *The Mathematics Teacher*.

A.3. Other research, other scholarly and creative activities, other non-refereed publications:

Books:

54. **Matthews, C.** (2006). *The Cricket Chronicles, Teacher's Edition* Scarecrow Press.
55. **Matthews, C.** (2006). *The Cricket Chronicles, Student Edition* Scarecrow Press.
56. Somers, A. & **Matthews, C.** (2006). *The Box Turtle Connection: A Guide to the Natural World*. Published by the authors and available online at www.ncparc.org.
57. McGee, K. & **Matthews, C.** (co-compiling editors). (1985). *The Design of Interactive Computer Displays: A Guide to the Select Literature*. Lawrence, KS: The Report Store.
58. Smith, W., Molitor, L., Nelson, B. & **Matthews, C.** (1984). *COMETS Science*. Volume II. Washington, DC: National Science Teachers Association.

Book Chapters:

59. Etim, J. (Editor). *Curriculum Integration K-12 Theory and Practice*. (2005). University Press of America. **Matthews, C.** & Somers, A. Using the Environment as a Context for Integrating the Middle School Curriculum.

Other Instructional Materials:

60. Middle School Science Textbook Publications: Academic Press (chapter author)
61. Campbell, T. & **Matthews, C.** (authors and editors) (1994, 1993 & 1992 editions). *Astronomy Activities: A Course Guide for Institute Participants*. (ITEACH). Boise, Idaho: The Discovery Center of Idaho.

Side Bar:

62. Maus, C. (1997). N.C. WILD: Don't Teach Without It. *Wildlife in North Carolina*, 61 (97), 14-16. Second Sidebar entitled **I Don't Teach Without It** by **Matthews, C.**

Book Reviews:

63. **Matthews, C.** (1993). [Review of Science Education in the United States: Issues, Crises and Priorities]. *Journal of College Science Teaching*, February, 1993, p. 261.
64. **Matthews, C.** (1991). [Review of Technology in America]. *Journal of College Science Teaching* 22 (March/April 1991) p. 319 - 320.
65. **Matthews, C.** (1990). [Review of Adventure of the Stone Man] *Inland: A Journal for Teachers of English Language Arts*, 1990, p. 27.

Non-refereed Articles:

66. Patrick, P.G., Tunnicliffe, S.D., **Matthews, C.E.**, & Ayers, D.F. (2007). Mission statements of AZA-accredited zoos: Do they say what we think they say? *International Zoo News*, 21 - 29.

B. Presentations:

1. Matthews, C. & Byrd, J. *Keeping Common Animals Common - Counting Counts: Summer Herpetology Programs for Middle & High School Students*. Environmental Educators of North Carolina. Annual Conference. November 4, 2007
2. Tomasek, T. & Matthews, C. (2005). *Transforming Student Awareness of Reptile and Amphibian Diversity*. Paper presented by Tomasek at NSTA's national conference in Houston, TX, April 2005.
3. Tomasek, T. & Matthews, C. (2004). *Transforming Student Awareness of Reptile and Amphibian Diversity*. Paper presented at NSTA's regional conference in Richmond, VA, December 2004.
4. Hall, J., Tomasek, T. & Matthews, C. (2004). *Students, Teachers, and Herps, Oh My*. Paper presented at NCSTA in Greensboro, November 2004.
5. Hall, J., Byrd, J., Tomasek, T. & Matthews, C. (2004). *Students, Teachers, and Herps, Oh My*. Paper presented at NSTA's national conference in Atlanta, GA, April 2004.

6. Matthews, C. & Tomasek, T. (2004). *Transforming Student Awareness of Reptile and Amphibian Diversity*. Poster presented by Matthews at NAAEE (North American Association for Environmental Education) in Gulfport, Mississippi, November 2004.
7. Strahan, D., Ponder, G., Cooper, J., Merrit, S. & Matthews, C. (2004). *Case Studies in School Improvement: Insights from High Performing High Schools in North Carolina*. Poster presented at AERA in San Diego, CA, April 2004.
8. Matthews, C., & Preservice Teachers. (2003). *Mucking around in Miniponds*. Papers presented at NCSTA in Greensboro, November 2003.
9. Matthews, C., Cook, H. & Hildreth, D. (2003). *Writing for Publication*. Paper presented at NCSTA in Greensboro, November 2003.
10. Somers, A. & Matthews, C., (2003). *Middle School Students Track Eastern Box Turtles*. Paper presented at NAAEE in Anchorage, October 2003.
11. Bennett, K. & Matthews, C., (2003). *North Carolina EE Certification Program and K – 12 Teachers*. Paper presented at NAAEE in Anchorage, October 2003.
12. Somers, A., Matthews, C., & Mansfield-Jones, J. (2003). *Middle School Students Track Eastern Box Turtles*. Poster presented at PARC (Partners for Amphibian and Reptile Conservation Education) in Gainesville, FL, March 2003.
13. Cook, H. & Matthews, C. & (2003). *Elementary School Science Fairs*. Paper presented at NSTA in Philadelphia, April 2003.
14. Matthews, C. & Teachers. (2003). *Pretty in Pink, Wicked in the Field*. Paper presented at NSTA in Philadelphia, April 2003.
15. Matthews, C. & Teachers. (2002). *Pretty in Pink, Wicked in the Field*. Paper presented at NCSTA in Greensboro, November 2002.
16. Matthews, C. (2002). *A Journey to the Amazon*. PowerPoint presented at NCSTA in Greensboro, November 2002.
17. Matthews, C., Cook, H., Preservice Teachers & Fifth Graders. (2002). *Serious Science Fair Projects*. Posters presented at NCSTA in Greensboro, November 2002.
18. Matthews, C. & Teachers. (2002). *Pretty in Pink, Wicked in the Field*. Paper presented at the North Carolina Parks and Recreation Conference in Greensboro, November 2002.
19. Matthews, C. & Duffy, A., & Teachers. (2001). *Animal Book Projects*. Papers presented at NCSTA in Greensboro, November 2001.
20. Cook, H. & Matthews, C. (2001). *Elementary School Science Fairs: Bane or Boon for Students, Teachers and Families?* Paper presented at NARST in St. Louis, April 2001.
21. Matthews, C., Patrick, P. & Vickers, V (2001). *Acorns Alive*. Paper presented at NSTA in St. Louis, April 2001.
22. Matthews, C., Davidson, C. & Patrick, P. (2001). *Meeting the Standards with Vanishing Frogs*. Paper presented at NSTA in St. Louis, April 2001.
23. Matthews, C. (2001). *Gender Equity Issues in Math, Science, and Technology in Elementary & Middle School Classrooms: A Multimedia Approach*. Software presented at NSTA in St. Louis, April 2001.
24. Matthews, C. & PDS Team. (2000). *What do you do at a Wild Education Site?* Papers presented at the NSTA Regional Meeting in Baltimore, MD, November 2000.
25. Matthews, C. (2000). *Environmental Education with K-5 Preservice Teachers in Diverse School Settings*. Paper presented at NAAEE in Padre Island, Texas, September 2000.
26. Levin, B., Matthews, C. & Miller, S. (2000). *Professional development schools that provide quality education: A theme-based cohort approach at UNCG*. Paper presented by Levin, Matthews, Cook & Massey at the First Annual PDS Conference in Columbia, SC, March 2000.

27. Matthews, C. & Cook, H. (1999). *Murder on the Beach*. Paper presented by Cook at the National Marine Educators Association's Annual Conference in Wilmington, NC, August 1999.
28. Matthews, C. & Levin, B. (1999). *Gender Equity Issues in Math, Science, and Technology in Elementary & Middle School Classrooms: A Multimedia Approach*, NCTEC, (North Carolina Technology Education Conference). Shared our CD-ROM with NC educators in Greensboro, November 1999.
29. Matthews, C. & PDS Team. (1999). *What do you do at a Wild Education Site?* Papers presented at NCSTA in Greensboro, November 1999.
30. Matthews, C. & PDS Team. (1999). *Environmental Education: Partnerships for Preservice Teachers*. Paper presented at North Carolina Environmental Education Conference, in Research Triangle Park, April 1999.
31. Matthews, C. & PDS Team. (1998). *The Insect Zoo*. Papers presented at NCSTA in Greensboro, November 1998.
32. Matthews, C. & Cook, H. (1998). *Witty & Wise: Wildlife Biologist Dr. Frances Hamerstrom*. Paper presented at NCSTA in Greensboro, November 1998.
33. Matthews, C. (1997). *Science Education and Professional Development Schools*. Paper presented at NSTA in New Orleans, April 1997.
34. Matthews, C., Cook, H., & Hildreth, D. (1996). *Science Education and Professional Development Schools*. Paper presented at NSTA Regional Meeting in Atlanta, November 1996.
35. Matthews, C., Cook, H., & Hildreth, D. (1996). *Science Education and Professional Development Schools*. Paper presented at NCSTA in Greensboro, November 1996.
36. Matthews, C., Hildreth, D., & PDS Team Members. (1996). *Make & Take session, Women Scientists Academy*. Papers presented at NCSTA in Greensboro, November 1996.
37. Matthews, C., Hildreth, D., & PDS Team Members. (1995). *Make & Take session*. Papers presented at NCSTA in Greensboro, November 1995.
38. Matthews, C. & PDS Team Members. *Make & Take session*. Papers presented at NCSTA, November 1993.
39. Matthews, C. & Cook, H. (1996). *The Great Horseshoe Crab Adventure*. Paper presented at The Greater Guilford County Science Teachers Association, October 1996.
40. Spruill, T., Matthews, C., and Numerous Invited Speakers. (1996). *Wetlands and Water Quality: Hands-on Hydrology in Guilford County, North Carolina*, Guilford County. Teacher (preservice and inservice) Workshop, October 10-11, 1996.
41. Matthews, C. and Numerous Other Faculty Members. (1996). *Preparing Teachers for the 21st Century*. Greensboro Television Program, May 1996.
42. Baize, D. & Matthews, C. (1996). *Sponge Science*. Paper presented at NSTA in St. Louis, March 1996.
43. Matthews, C. & Cook, H. (1995). *Sponge Science*. Paper presented at NCSTA in Greensboro, November 1995.
44. Matthews, C. & Levin, B. (1995). *Gender Equity Issues in the Elementary School Classroom: Using Multimedia to Educate Preservice Teachers*. Paper presented at NCTEC (North Carolina Technology Education Conference) in November 1995.
45. Levin, B. & Matthews, C. *Gender Equity Issues in the Elementary School Classroom: Using Multimedia to Educate Preservice Teachers*. Paper presented at EERA (Eastern Education Research Association) in Hilton Head, SC, February-March, 1995.
46. Matthews, C. (1995). *Gender Equity Issues in the Elementary School Classroom: Using Multimedia to Educate Preservice Teachers*. Panel discussion at AACTE (American Association Colleges of Teacher Education), in Washington, DC, February 1995.

47. Batoff, M. & Matthews, C. (1995). *Feynman Remembered*. Paper presented at NSTA in Baltimore, November 1995.
48. Finsand, L., Walling, J., Dodds, J., & Matthews, C. (1995). *Investigating Microfossils from 250 Million BC*. Paper presented at NSTA in Philadelphia, March 1995.
49. Matthews, C. and other invited guests. (1995). Public Television Program on State-to-State Parents & Schools, focus on *PDS*. Hosted by Dean of Education, Charles Coble, East Carolina University, February 9, 1995.
50. Matthews, C. (1994). *Symbiosis: Who's Living With Whom?* Paper presented at the North Carolina Zoo, Asheboro NC Zoo Concepts Project, September 12, 1994.
51. Mayberry, S. & Numerous speakers including Matthews, C. (1994). *Alternative Assessment in Elementary Science Methods Courses*. Paper presented at NSTA in Anaheim, April 1994.
52. Matthews, C., Craig, J., & Campbell, T. (1994). *Teaching Science through Literature and Legend*. Paper presented at NSTA in Anaheim, March 1994.
53. Matthews, C. (1993). *Snail Shell Science*. Paper presented at NSTA, Regional Meeting in Orlando, December 1993.
54. Matthews, C. (1993). *Teaching Science through Native American Legends*. Paper presented at NCSTA in Greensboro, October 1993.
55. Matthews, C. *Teaching Science through Native American Legends*. Paper presented at NSTA in Kansas City, April 1993.
56. Matthews, C. (1993). *Culture and Cormorants: International Science Education*. Paper presented at the Rocky Mountain Region Japan Project in Boulder, Colorado, August 1993.
57. Craig, J., Campbell, T., & Matthews, C. (1993). *I TEACH* (Idaho Teachers Excited about Cruisin' the Heavens). Paper presented at NSTA in Kansas City, April 1993.
58. Matthews, C. (1993). *Snail Shell Science*, presented on *Science Teachers Notebook*, Greensboro Television, spring 1993.
59. Matthews, C., Craig, J., & Campbell, T. (1992). *Teaching Science through Native American Legends*. Paper presented at Idaho Science Teachers Association in Post Falls Idaho, October 1992.
60. Craig, J., Campbell, T., & Matthews, C. (1992). *I TEACH*. Paper presented at ISTA in Post Falls, Idaho, October 1992.
61. Matthews, C. & Young, K. (1992). *Puzzling Perceptions: Making Connections with Scientists*. Paper presented at NSTA, Regional Meeting in Charlotte, December 1992
62. Matthews, C. & Young, K. (1991). *The Bullet Train: Symbol of the Japan Odyssey from the Past into the Future*. Slide show presented at the Rocky Mountain Region Social Studies Convention, April 1991.
63. Matthews, C. (1991). *Models of Teaching to Address Issues in Informal Science Education*. Paper presented at The Boise Area Educators Association, April 1991.
64. Matthews, C. and Many Others. (1991). *Meeting Educational Challenges of the 21st Century: Preparing Social Studies Teachers to Teach with a Global Perspective*. Paper presented at the Rocky Mountain Region Social Studies Convention, April 1991.
65. Matthews, C. (1990). *Models of Teaching to Address Issues in Informal Science Education*. Paper presented at the Idaho Botanical Gardens' Docent Training Session, March 1990.
66. Matthews, C. (1990). *Models of Teaching to Address Issues in Informal Science Education*. Paper presented at the Treasure Valley Early Childhood Association Meeting, March 1990.
67. Matthews, C. (1991). *Effect of Using Culturally-Relevant Science Curriculum Materials on Native American Elementary Students*, Paper presented at NARST (National Association for Research in Science Teaching) in Geneva, Wisconsin, April 1991.

68. Matthews, C. (1990). *Working with Native American Students in Math and Science*, Secondary Science Inservice, Boise School District, February 1990.
69. Matthews, C. (1990). *Observation and Classification: Keys to the Natural World*. Paper presented at ISTA in Boise, ID, October 1990.
70. Matthews, C. (1990). *Observation and Classification: Keys to the Natural World*. Paper presented at the Boise School District, Gifted and Talented Program Meeting, October 1990.
71. Matthews, C. (1990). *Observation and Classification: Keys to the Natural World*. Paper presented at the Kansas Association of Teachers of Science's annual convention in Cottonwood, KS, April 1990.
72. Matthews, C. (1991). *What is an Educated Person?* Feynman Nova Video, Cynthia Mann Elementary School, Boise, ID, November 1990.

C. **Grants (Funded Research):**

1. Director, *Slip, Slidin' Away*, Burroughs Wellcome Fund, \$180,000. Funded February 2, 2007 - February 1, 2010. (with Ann Somers, UNCG Biology)
2. Co-director of a USTEP grant, *Launching into Space Science*, 2004-2005, ~\$4,000 (with Karen Gavigan, Director, TRC & Bob Muir and Steve Danford, UNCG physics department, grant effort lead by Karen Gavigan).
3. Co-director of a USTEP grant, *STEP Collaborative*, 2004-2005, ~\$6,000 (with all Secondary Teacher Education Program Faculty, grant effort lead by Cos Fi).
4. Co-project director of a USTEP grant, *Crossing the Chasms of the Disciplines*, 2004-2005, \$5,000 (with Sherri Merrit).
5. Project director of a USTEP grant, *RAMPing Up! (Reptile & Amphibian Monitoring Project)*, 2003-2004, \$4,000.
6. Director of a USTEP grant, *Reptile & Amphibian Monitoring Project*, \$5,000.
7. Co-director of a USTEP grant, *Wolves Tracking Turtles*, \$5,000 with Ann Somers, UNCG Biology Department.
8. Co-director of an EPA grant, *Wolves Tracking Turtles*, \$5,000 with Ann Somers
9. Co-director of a NC Beautiful Grant, *Frogs & Turtles & Snakes...Oh My!*, \$1,000 with Dr. Helen Cook and Ms. Terry Tomasek, to fund our reptile and amphibian monitoring station at Camp Chestnut Ridge, 2002-2003.
10. Co-director of a USTEP grant, *Animal Project Books for Middle Grades Teachers*, \$5000 (with Ann Duffy Harrington).
11. *Operation Chemistry*, Eisenhower Grant, \$30,000 (with Walsh and Kelter, Chemistry Department).
12. Co-director of an Apple Math and Science Solutions Grant, 1998. software, with Jean Camp.
13. Co-director of a USGS Education grant, *Wetlands & Water Quality: Hands-on Hydrology in North Carolina*, 1996, \$29,000 (with Mr. Timothy B. Spruill, hydrologist, US Geological Survey).
14. Co-director of a *North Carolina Environmental Education Library Grant*, NCDHENR, 1997-98, \$4,000 (with Nanny Foster).
15. Director of an Undergraduate Research Assistantship, 1997-98, \$1,500.
16. Co-director on an ACT Grant (Advancement of College Teaching) for developing an international focus for the elementary teacher education curriculum at UNCG, 1998, \$3,000, with Dr. Levin
17. Kohler Travel Grant Award to travel to Spain and Portugal and supervise the UNCG PDS student teachers in American International Schools in Madrid and Lisbon, with Dr. Levin, Spring 1998, \$500.
18. UNCG mini-grant of \$350 was used to support our travels to Wisconsin to interview and videotape Dr. Frances Hamerstrom, Wisconsin Wildlife Biologist with a special interest in raptors and

prairie chickens, author of *The Adventures of the Stone Man, An Eagle to the Sky*, and other books for children and adults on natural history

19. Co-director of *Where in the World is Species Generalis? A Partnership in Multimedia Environmental Education*, with Camp & Baber, Corporation for Public Broadcasting, 1996, \$5,000.
20. *A Case Of Cases: A Case Study Proposal To Examine Gender Equity Issues In Two Elementary School Classrooms*, 1996, \$600.
21. Director of an Undergraduate Research Assistantship for a student on my PDS team to assist with the case study research above, 1996-97, \$1,000.
22. Director of *The Great Horseshoe Crab Field Trip*, Teaching Fellows Junior Enrichment Experience Summer 1996, \$2,000.
23. Director, Research Study Grant, NCSTA, 1996, \$750.
24. Co-director with Dr. Barb Levin. Teacher Education Equity Project. Sponsored by NSF and administered by CUNY, to develop a multimedia CD-ROM on gender equity issues in math, science and technology for preservice teachers. 1994 – 1995, \$1,500.
25. Co-director, *UNCG ACT (Advancement of Curriculum & Teaching) Grants*, 1993, *Integrated Secondary School Teacher Preparation* with Drs. Baber & Cox, \$3,000; 1995.
26. Gender Equity CD on behalf of the CUI Department. \$3,000, with Dr. Levin and Dr. Hodgkin.
27. New Faculty Grant, UNCG, 1992, *Puzzling Perceptions: Making Connections with Scientists*, \$1,200.
28. Co-PI, NSF Grant, I Teach (Idaho Teachers Excited About Cruisin' the Heavens), 1991-94, \$437,596.
29. Director, GEMS Grant (Great Explorations in Math and Science), 1992.
30. Director, Eisenhower Math & Science Education Grants, 1991 & 1992.
31. MASTERS (Math And Science TEACHERS for Reservation Schools), 1988-89 (grad student).
32. COMETS (Career Oriented Modules to Explore Topics in Science), 1980-81 (grad student).

D. Honors, recognitions & awards:

1. Research Leave, Spring Semester 2005.
2. University Marshall's Award, Named a Faculty Member of Excellence who has positively influenced the success of students at UNCG, Spring Semester 2004.
3. The following PDS EE team members have been selected as outstanding student teachers in science and awarded certificates and monetary awards from NCSTA: Joy Goodman (PDS Team #1), Melony Allen (PDS Team #1), Amanda Crisp (PDS Team #2), Heather Wright (PDS Team #2), Amy Brown (PDS Team #3), Donna Moser (PDS Team #4), and Cathy Kowolenko (PDS Team #5) in elementary education. Secondary science teachers, Michael Kirk, Kimberlee Alum and also received this honor.
4. Nominated for SOE Faculty Teaching Award.
5. Representative from General Greene School of Science & Technology, one of my PDS schools, to attend the banquet and receive one of the Governor's Entrepreneurial School Awards
6. NCSTA New Members Award, 1996. 1997 & 1998.
7. Earned North Carolina Environmental Education Certification, Recognized for that achievement in November 2003.
8. Outstanding Faculty Award, Haskell Indian Junior College, 1985 – 86.