

## G. NATHAN CARNES

College of Education  
107 Wardlaw Hall  
The University of South Carolina  
Columbia, SC 29208

Work Phone: (803) 777-4265  
Home Phone: (803) 749-7967  
Work FAX: (803) 777-7970  
E-Mail: ncarnes @ed.sc.edu

### Education:

Ph.D., Miami University, Oxford, OH. Educational. 1996. Major: Curriculum and Instruction with an emphasis in science education. Dissertation Title: Investigating Change in Urban Middle School Teachers as a Result of Sustained Professional Development.

M.Ed., Wright State University, Dayton, OH. Teacher Education, 1989. Major: Classroom Teacher, Science.

M.Ed., Wright State University, Dayton, OH. Teacher Education, 1985. Major: Classroom Teacher.

B.S., Miami University, Oxford, OH. Teacher Education. Major: Elementary Education, 1980. Proficiency in Spanish. Completed intensive study of Spanish in Guadalajara, Mexico during summer of 1980.

### Employment:

<u>Dates</u>	<u>Firm/Institution</u>	<u>Rank/Position</u>
2002- Present	University of South Carolina	Associate Professor
1996-2002	University of South Carolina	Assistant Professor
1992-1996	PROJECT DISCOVERY (Ohio's Statewide Systemic Initiative for Mathematics and Science Education)/Miami University	Visiting Instructor/Regional Liaison
1993-1994	PROJECT DISCOVERY (Ohio's Statewide Systemic Initiative for Mathematics and Science Education)/Miami University	Visiting Instructor/ Teacher Coordinator
1992-1993	PROJECT DISCOVERY (Ohio's Statewide Systemic Initiative for Mathematics and Science Education)/Miami University	Visiting Instructor/ Master Teacher
1980-1992	Troy City Schools	Elementary/Middle Level Science Teacher

**Honors:**

- 2007 Association for Science Teacher Education Outstanding Science Teacher Educator of the Year, Award I
- 2002 Faculty Teaching and Scholarship Award, the USC Black Faculty and Staff Association
- 2000 Alpha Chapter of Mortar Board Excellence in Teaching Award
- 1996 August Commencement Speaker, Miami University
- 1993 Intern, Committee on Equal Opportunities in Science and Engineering, National Science Foundation. Washington, DC.
- 1985 Young Experimental Scientist Instructor for Center of Science and Industry. Columbus, OH.
- 1981, 1983 Outstanding Young Men of America
- 1980 International Youth in Achievement
- 1980 National Dean's List
- 1980 Who's Who Among Students in American Universities and Colleges
- 1980 Minority Student Achievement Award

**Selected Refereed Publications:**

Carnes, G. N. (2001). Teachers' perspectives on their collaboration with university-based teacher educators. Teacher Education Journal of South Carolina.

Carnes, G. N., & Schwager, S. (2000). Managing simultaneous renewal: Reward structures for school and university faculty. Teaching and Change, 8 (1), pp. 51-64.

Carnes, G. N. (1998). An assessment of equitable instruction within three urban middle school classrooms. Journal of Women and Minorities in Science and Engineering, 4 (2-3), pp. 283-295.

Carnes, G. N., & Boutte, G. S. (1998). Teachers leading the way. Teaching and Change, 69 (1), pp. 79-89.

Carnes, G. N. (2002). A dilemma in which time matters. In D. Tippins, T. Kolbala, & B. Payne (Eds.). Learning from cases: Unraveling the complexities of elementary science teaching. Needham Heights, MA: Allyn & Bacon Publishing.

Carnes, N. (2001). The USC PDS Network legacy: A collaborative partnership in progress. In S. Seidel (Ed.), The Legacy of the Teacher Education Initiative. Washington, D.C.: National Education Association.

### **Selected Non-Refereed Publications:**

Carnes, G. N. (2003). Interpreting Elementary Teacher Candidates' Images of Science Teaching. Proceedings of the Hawaii International Conference of the Association for the Education of Teachers in Science. Available on CD; ISBN 1541-5880.

Carnes, G. N., Brown, S., Munn, W., & Shull, T. (2002). Interacting with M.A.T. interns about their views of science teaching. In P.A. Rubba, J.A. Rye, B. Crawford, & W. J. DiBaise (Eds.). Proceedings for the 2002 Annual International Conference of the Association for the Education of Teachers in Science.

Carnes, G. N. (2000). M.A.T. interns' views of scientists. In P.A. Rubba, J.A. Rye, P. F. Keig, & W. J. DiBaise (Eds.). Proceedings for the 2000 Annual International Conference of the Association for the Education of Teachers in Science. ED 438 191.

Flick, L. B., Keys, C. W., Westbrook, S. L., Crawford, B.A., & Carnes, G. N. (1997). Perspectives on inquiry-oriented teaching practice: Conflict and clarification. ED 407 255.

### **Selected Grantsmanship:**

Graduate Teaching Fellows in K-12 Education (GK-12) Program. National Science Foundation. \$1.1 million. Co-authors: J. Lyons and C. Ebert (2001-2004). Funded.

SCANA and USC Partner for Science Education. SCANA Corporation. \$125,000. 2000-2002. Co-author: C. Ebert. Funded. (Funds used to upgrade science classroom in Wardlaw Hall).

Upper Elementary Grades Science Standards Project. Eisenhower Professional Development Program in Science and Mathematics. \$69,416. Co-authors: P. Astwood and D. Hutto. (2001). Funded.

National Education Association-Teacher Education Initiative at the USC PDS Network. National Education Association. \$75,000. (1997-2000). Funded.

MU-SEMP (Miami University-Science-Engineering-Mathematics-Program). National Science Foundation Summer Science Camp Program for Minority Students. \$123,730. Co-authors: I.D. Johnson and A. Roychoudhury. (August 1993-January 1997). Funded.

MU-SEMP (Miami University-Science-Engineering-Mathematics-Program). National Science Foundation Summer Science Camp Program for Minority Students. \$121,248. Co-authors: I.D. Johnson and A. Roychoudhury (August 1993-January 1996). Funded.

MU-SEMP (Miami University-Science-Engineering-Mathematics-Program). National Science Foundation Summer Science Camp Program for Minority Students. \$83,331 Co-authors: I.D. Johnson and A. Roychoudhury (August 1993-January 1995). Funded.

## **Selected Professional Presentations:**

Carnes, G.N. (2005, January). *Beginning the Dialogue of Diversity with Preservice Teachers*. Paper presentation at the Association for Science Teacher Education International Conference, Colorado Springs, CO.

Carnes, G. N. (2001, January). Elementary M.A.T. interns' perceptions of science teaching. Presented at the annual meeting of the Association for the Education of Teachers in Science , Costa Mesa, CA.

Carnes, G. N., Brown, S., Munn, W., & Shull, T. (2002, January). Interacting with M.A.T. interns about their views of science teaching. Symposium presentation at the 2002 Annual International Conference of the Association for the Education of Teachers in Science, Charlotte, NC.

Carnes, G. N., & Chen, L. (2001, March). A preliminary investigation of the relationship between a PDS concept and student achievement. Presented at the 2001 Southeastern Holmes Regional Partnership Conference, Myrtle Beach, SC.

Carnes, G. N., & Damjanovic, A. (2000, April). Middle school teachers' views of science reform. Presented at the annual meeting of the National Association for Research in Science Teaching, New Orleans.

Carnes, G. N. (2000, January). M.A.T. interns' views of scientists. Presented at the annual meeting of the Association for the Education of Teachers in Science, Akron, OH.

Barringer, D., Carnes, G. N., Lewis, M., Mason, J., Rosati, J., Rotter, J., Sternberg, L., & Toner, T. (2001, January). The diverse faces of the USC PDS. Poster presentation at the annual meeting of the Holmes Partnership Conference, New Albuquerque, NM.

Carnes, G. N. (2000, December). NEA-TEI Teacher education initiative: Lessons learned. Presented at the meeting of the Professional Development School Leadership Academy, Columbia, SC.

Shirley, J., Carnes, G. N., & Meyers, K. (2000, April). USC and Irmo Elementary partnership for educational renewal: How the professional development school design creates exemplary practices for student learning . Powerpoint presentation at the annual meeting of the Blue Ribbon Schools Conference, Spartanburg, SC. (Contributed).

Carnes, G. N. (2000, March). Implementation of NEA-TEI principles: A report from the USC PDS network. Presented at the meeting of the University of South Carolina National Professional Development Site Conference, Columbia, SC.

Carnes, G. N. (1997, April). Teacher conceptions of inquiry and related teaching practices. Co-presented on a panel with Larry B. Flick, Carolyn W. Keys, Susan L. Westbrook, and Barbara A. Crawford at the National Association for Research in Science Teaching Annual Conference, Chicago, IL.

## **Invited Presentations and Guest Teaching**

Carnes, G. N. (1998, March). An overview of NU\*DIST Software. Presented in the EDRM 840: Methods in Ethnographic Description course, University of South Carolina, Columbia, SC.

Carnes, G. N. (1997, February). Integrating equity into the NEA-TEI nine principles: A proposal. Presented at the National Education Association-Teacher Enhancement Initiative Advisory Council Meeting, Washington, DC.

Carnes, G. N. (1997, February). An overview of NU\*DIST Software. Presented in the EDRM 840: Methods in Ethnographic Description course, University of South Carolina, Columbia, SC.

Carnes, G. N. (June 1996). An overview of the Newton Learner Profile as an assessment tool. Darke County Curriculum Implementation Workshop, Greenville, OH.

Carnes, G. N. (March 1994). Cooperative Learning. Project Discovery Academic Year Seminar, Cincinnati, OH.

## **Consulting:**

(2007, January- April). GEAR-UP Project. University of Missouri- St. Louis. Focus: To provide insight into and guidance of professional development component.

(2005, April). South Carolina Department of Education reviewer of State Elementary Science Standards. Focus: To determine appropriate quality, scope and sequence of elementary science education standards.

(2001, October –November). American Association for the Advancement of Science reviewer of the South Carolina Science Palmetto Achievement Challenge Test (PACT). Focus: To assess alignment and quality of third and eighth grade PACT items.

(1998, March). McCormick Elementary and Middle Schools. Focus: To improve student achievement in science.

(1993-94). Cincinnati Public Schools National Science Foundation Urban Systemic Initiative (USI) Writing Team. Focus: To assist in preparing a USI proposal.

## **Professional Memberships and Selected Service:**

2006-2007	Association for Science Teacher Education, Executive Board Member & Senior Regional Representative
2006- Present	South Carolina Professors of Middle Level Education, Member
2003- 2007	Association for Science Teacher Education, Board Member
2003- 2007	Southeast Association for Science Teacher Education, Regional Director
2003- 2006	University of South Carolina Association for Black Faculty & Staff, Faculty Representative at Large
1995- Present	National Association for Research in Science Teaching, Member
2002- Present	South Carolina Science Council, Member

