

CURRICULUM VITAE
CAROLYN SIMPKINS TURNER

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Educational Background

Ph.D. Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Degree: Housing Interior Design, and & Resource Management,
1985 Area of Concentration: Housing & Consumer Science
Dissertation Title: Perceived Thermal Comfort and Energy Conservation
Strategies in Residential Heating
Advisor: Betty P. Lovingood, Ph.D.

M.S. University of North Carolina at Greensboro, Greensboro, NC
Degree: Master of Science, 1972
Major: Housing & Resource Management
Thesis Title: Furniture Preferences, Product Characteristics and Purchasing
Capabilities of Public Housing Residents
Advisor: Kay P. Edwards, Ph.D.

B.S. University of North Carolina at Greensboro, Greensboro,
NC Degree: Bachelor of Science, 1966
Major: Family and Consumer Science Education

Employment History

1/2009 to present	Professor Emeritas, Family and Consumer Sciences, North Carolina A&T State University (retired)
8/2001 to 1/2009	Professor and Associate <u>Dean</u> for Research, School of Agriculture and Environmental Sciences, North Carolina A&T State University
7/2001	Professor, Department of Family and Consumer Sciences, Housing Research, North Carolina A&T State University
1992 — 6/2001	Associate Professor , Department of Family and Consumer Sciences, Housing Research, North Carolina A&T State University
1982 - 1992	Associate Professor , Department of Family and Consumer Sciences, Housing Research, North Carolina A&T State University

- 1978 — 1982 Doctoral study leave from North Carolina A & T State University
- 1973 - 1978 Instructor, Housing and Consumer Studies, Department of Human Environment and Family Sciences, North Carolina A & T State University
- 1968 - 1972 Greensboro Housing Authority

Professional Memberships

American Association of Housing Educators

- President, 1990
- Program Chair, 1989 Annual National Conference
- Editor, Refereed Papers for 1987 Annual Conference
- Chair, Publications Policy Committee for Housing and Society.
- Publications Committee, Chair, 1986
- Board of Directors, 1986-1988
- Research Committee, 1981-Present

American Association of Family and Consumer Science

- Chair, Adhoc Committee for Expanded Membership
- National Secretary, 1999-2001
- State Presidents' Unit, 1988-89

North Carolina Association of Family and Consumer Sciences

- Chair, Colleges and University Section, 1993-94
- President, 1989
- President-Elect, 1988
- Research Committee, Chair, 1986-1988

American Society of Heating, Refrigerating, and Air-Conditioning

Engineers American Solar Energy Society

North Carolina Solar Energy Society

- Board Member, 1986-1988
- Vice-Chairman, Piedmont Triad Section
- Member, State Education Committee

Professionally-Related Memberships

Southern Extension and Research Information Exchange Group (USDA supported).

- Chair, 1995-1997.

North Carolina Low Income Housing Coalition

North Carolina Residential Energy Forum
Chair, Executive Committee, 1991-96

Greensboro Housing Coalition
Executive Committee, 1991-92

Honor Societies

Gamma Sigma Delta, Past Treasurer, A & T Chapter
Kappa Omicron Nu, National Committee for Scholarship Selection, 2002-present.
Phi Kappa Phi
Sigma Xi

Publications/Reports

Lewis, Evelyn L. & Turner, Carolyn S. (2012 edition under revision, 2006, 2004, 2000 editions), Housing Decisions. Chicago, Illinois: Goodheart-Willcox Publishing Company. (2012 edition new title: Housing and Interior Design) (Secondary level housing textbook used in family and consumer sciences classes nationwide).

Shahbazi, A., Turner, C., Singh, H., & Fitzpatrick, S. (2005). Performance Evaluation and Economic Analysis of a Grid Connected Photovoltaic System in a Multifamily Residential Building. Journal of Applied Engineering in Agriculture, 21 (4): 729-735.

Walker, J., Turner, C., Shoffner, S., & Gibson, F. (2001) Enhancing Internships through Modules of Experiential Learning Activities. Journal of Family and Consumer Sciences, 93 (4) 25-27.

Rojeski, P., and Turner, C. (2001). Political Realities of Proposed Voluntary Program to Improve Ventilation in Restaurants that Permit Smoking. INvironment Professional.

Turner, C. (Spring, 2000). The Role of Individuals with Mobility Limitations, Family Members, and Helping Agencies in Obtaining Accessible Home Modifications. Housing and Society.

Rojeski, P., Turner, C., Gonzalez, M., Mobley, C. (June 19, 2000). Take Some Fries--Hold the Smoke," Air Conditioning, Heating and Refrigerating News.

Turner, C. S. (2000) Mobilizing a "Think Tank" of Past Presidents. Journal of Family and Consumer Sciences, 92 (3), 45.

Turner, C. S. Connections to National. (Fall, 1999). FOCUS--Newsletter of North Carolina Association of Family and Consumer Sciences.

- Turner, C. S. (Fall 1998). Satisfaction with Manufactured Housing. Journal of Family and Consumer Sciences, 90 (3), 60-66.
- Turner, C. S., Gruber, K. J., Robinson, R. R., & Connell, B.R. (1998). The Role of Individuals with Mobility Limitations, Family Members, and Agencies in Obtaining Accessible Home Modifications. Housing and Society, 25 (1 & 2): 87-102.
- Turner, C. S., Gruber, K. J., Klett, D. E. (1995, 2nd printing; 1988 1st printing). The Effect of Home Energy Conservation Strategies on Lifestyle. Technical Bulletin Series T-140, North Carolina Agricultural and Technical State University.
- Turner, C. S. (1995) DATA BOOK. Manufactured Housing in North Carolina: Housing/Population Characteristics and Zoning Regulations. In House Report.
- Turner, C. S. & Gruber, K. J. (1993). Human Factors in Residential Energy Efficiency. Housing and Society, 20 (2), 1-14.
- Connell, B. R., Sanford, J. A., Long, R. G., Archea, C. K., and C. S. Turner. (Fall 1993). Home Modifications and Performance of Routine Household Activities by Individuals with Varying Levels of Mobility Impairments. Technology and Disability, 2 (4), 9-18.
- Turner, C. S. & Gruber, K. J. (1990). Residential thermostat management practices: An investigation of setback behavior. In Proceedings of the ACEEE 1990 Summer Study on Energy Efficiency in Buildings, Volume 2 (Human Dimensions, pp. 153-160). Washington, D. C.: American Council for an Energy Efficient Economy.
- Turner, C. S. & Gruber, K. J. (1989). Occupant use factors influencing optimal results from energy conservation strategies. Journal of Consumer Studies and Home Economics, 13, 219-235.
- Turner, C. S. (1986). Mentoring: A Key to leadership development. NCHEA Newsletter, Winter.
- Turner, C. S., Klett, D. E., & Gruber, K. J. (1985). User evaluation of the solar greenhouse as a heat source: Comfort and related issues. In A. T. Wilson & W. Glennie (Eds.), Solar 85, Conference Proceedings, 10th National Passive Solar Conference, American Solar Energy Society, Raleigh, pp. 401-405.
- Turner, C. S., Klett, D. E., & Ahmed, F. (1984). Effect of home energy conservation strategies on lifestyle: An overview. In B. M. Morrison and W. Kempton (Eds.), Family and Energy, Coping with Uncertainty. Institute for Family and World Study, College of Human Ecology, Michigan State University, pp. 617-628.
- Klett, D. E., Grider, D. A., Price, I., and Turner, C. S. (1984). A 48-channel Commodore microcomputer based acquisition system, Proceedings, American Society of Mechanical Engineer, Solar Energy Division, 6th Annual Technical Conference, Las Vegas, Nevada.

Turner, C. S. (1980, November). Review and analysis of household equipment research. Current Development in Home Appliances, National Conference of College Education, Norfolk, Virginia.

Goswami, D. Y., Klett, D. E., Mazyck, H. & Turner, C. S. (1979). Model Solar Home for Demonstration and Consumer Studies. Final report to North Carolina Energy Institute, Research Triangle Park.

Turner, C. S., (1974). Determining consumer preference for furniture product characteristics, Home Economics Research Journal, 3(1).

Scholarly Activities/Publishing

Panelist, Technical Evaluation Committee, STAC Proposals submitted for Energy Efficiency Research, Demonstration, Deployment, and Rebuild America Projects Competitive Solicitation (05-STAT-01), U. S. Department of Energy, September, 2005.

Reviewer, The Forum for Family and Consumer Issues. Electronic Publication, North Carolina State University. 1997-present.

Reviewer, Housing and Society, Research Journal of American Association of Housing Educators, 1987-present.

Reviewer, Annual Conference Paper Presentations, American Association of Housing Educators, 1985-1992.

Editor, 1987 Referred Papers for Annual Conference, American Association of Housing Educators.

Chair, Publications Committee, Housing and Society, 1986.

Presentations at Professional Meetings

"Designing Spaces to Improve Health and Wellness." (June 26, 2005). American Association of Family and Consumer Sciences, San Diego, CA. Annual Conference (with Shirley Niemeyer).

"Integrating Housing into the FCS Curriculum: Housing Issues Across the Lifespan." (June 27, 2004). American Association of Family and Consumer Sciences, San Diego, CA. Annual Meeting (with Shirley Niemeyer).

"Optimizing Manufactured Housing Energy Use." (May 14-20, 2004). 14th Symposium on Improving Building Systems in Hot and Humid Climates, Richardson, Texas. (W. Mark McGinley, Alaina Jones, Carolyn Turner, NCA&T, Greensboro, NC; Subrato Chandra,

David Beal, Danny Parker, Neil Moyer and Janet McIlvaine, Florida Solar Energy Center, Cocoa, Florida.

"Energy Efficiency in Manufactured Housing: Results of Side-By-Side Comparison." (October 22, 2004). Annual Conference, Housing Education and Research Association, Chicago, Illinois.

"Manufactured Housing Research Initiative at NC A&T State University," North Carolina Association of Family and Consumer Sciences, Statesville, March 24, 2000; Energy Policy Council, NC Energy Division, March 8, 2000.

"Photovoltaic Applications in Residences," (October 22, 1999). American Association of Housing Educators, Florida.

"Perceptions in Manufactured Housing," (March 12, 1999). North Carolina Association of Family and Consumer Sciences. Raleigh, North Carolina.

"Building Internship Preparation into the University Curriculum." (March 12, 1999). North Carolina Association of Family and Consumer Sciences. Raleigh, North Carolina.

"'Booting Up' for Internship Success," (June 30, 1998). American Association of Family and Consumer Sciences, Colleges and Universities Section, Atlanta, Georgia.

"Photovoltaic Applications in North Carolina Residences." (March 20, 1998). North Carolina Association of Family and Consumer Sciences. Raleigh, North Carolina.

"Using a Web Application to Teach about Internships." (November 1, 1997). Project Directors Conference for 1890 Institution Teaching and Research Capacity Building Grants Program and Higher Education Challenge Grants Program, College Park, Maryland.

"Household and Housing Characteristics of Single-Section and Double-Section Manufactured Housing Residents in North Carolina." (October 23, 1997). Annual Conference, American Association of Housing Educators, New Orleans, Louisiana.

"Comparison of Actual and Perceived Characteristics of Manufactured Housing Occupants and Structures." (October 3, 1998). Research Symposium, Agricultural Research Directors, San Antonio, Texas.

"Adoption and Use of Photovoltaics for Household Electricity by North Carolina Residents." (October 2, 1998). Poster Presentation. Research Symposium, Agricultural Research Directors, San Antonio, Texas.

"Community Assessment of Manufactured Housing Residents and Unit Characteristics: A Comparison of Perceptions and Reality." (June 11, 1997). Research Forum, School of Human Environmental Sciences, University of North Carolina at Greensboro.

"Comparison of Household Characteristics and Housing Satisfaction of Single-Section and Double-Section Manufactured Housing Residents in Rural North Carolina." (March 14, 1997). North Carolina Association of Family and Consumer Sciences. Statesville, NC.

"Barriers to Utilization of Rural Housing Programs by Targeted Audiences in Two Southern States." (October, 1996). Proceedings, Annual Conference, American Association of Housing Educators, Manhattan, Kansas (with Rita Conley, University of Arkansas--Pine Bluff).

"Housing Research Activities in the Southeastern United States." (October, 1995). Panel Presentation, Annual Meeting, American Association of Housing Educators, Salt Lake City, Utah.

"Presence of Accessible Modifications/Features in Residences of Individuals with Physical Disabilities." (October, 1994). Proceedings, Annual Conference, American Association of Housing Educators, Atlanta, Georgia.

"Housing for Individuals and Groups with Special Needs." (August, 1995). North Carolina Association of Extension Home Economists, State Meeting, Raleigh, N.C.

"Presence of Accessible Features in Residences of Individuals with Disabilities: Association with Independence in Completing Daily Living Activities," (June, 1994). Abstracts of Research Presentations, Annual Meeting, American Home Economics Association, San Diego, California (with Ken Gruber).

"Rural Elderly Homeowners--Barriers to Energy Modifications." (December 14, 1994). Utility Partnerships, Regional Workshop for Buildings Energy Efficiency. Chattanooga, Tennessee.

"Home Energy Modification Plans of the Rural Elderly." (June, 1993). Abstracts of Research Presentations, Annual Meeting, American Home Economics Association, Orlando, Florida (with Ken Gruber).

"Housing and Energy Concerns of Rural Elderly Homeowners." (October, 1992). Research Symposium, Agricultural Research Directors, Atlanta, Georgia. (with Ken Gruber).

"Current Use Patterns: Winter Thermostat Setback Practices." (November, 1990). Annual Meeting, North Carolina Home Economics Association, Research Triangle, N. C. (Poster Presentation)(with Ken Gruber).

"Residential Thermostat Management Behavior: An Investigation of Setback Behavior" (August, 1990). American Council for an Energy Efficient Economy. Monterey, California. (with Ken Gruber).

- "Potential for Improved Comfort and Energy Use Based on Current Residential Thermostat Setback Practices" (October, 1989). Research Symposium, Association of Research Directors, Washington, D. C. (with Ken Gruber).
- "Managing Personal Comfort: An Investigation of Heating and Cooling Use Patterns" (June, 1989). American Psychological Society. Washington, D. C. (with Ken Gruber).
- "Occupant Use Factors Influencing Optimal Results from Energy Conservation Strategies" (September, 1988). American Council for an Energy Efficient Economy. Monterey, California. (with Ken Gruber).
- "Use Factors Influencing Household Energy Consumption. (June, 1988). American Home Economics Association, Annual Meeting, Baltimore, Maryland. (with Ken Gruber).
- "Implementation of Selected Residential Energy Conservation Strategies: Actual Versus Optimal Management Practices" (October, 1987). Research Symposium, Association of Research Directors, Washington, D. C. (with Ken Gruber).
- "Perceived Thermal Comfort and Energy Conservation Strategies in Residential Heating" (June, 1985). American Home Economics Association, Philadelphia, Pennsylvania. (with Rebecca Lovingood).
- "User Evaluation of the Solar Greenhouse as a Heat Source: Comfort and Related Issues" (October, 1985). American Solar Energy Society, Raleigh, North Carolina (with Ken Gruber and David Klett).
- "Use of a Solar Greenhouse as a Supplemental Heating Source" (October 1985). Research Symposium, Association of Research Directors, Atlanta, Georgia (with Ken Gruber).
- "Acceptability of Energy Conservation Practices in Hot Water Consumption" (November, 1985). North Carolina Home Economics Association, Raleigh, North Carolina (with Ken Gruber).
- "Computer Education: Assessment of the Computer Knowledge, Skills, and Utilization Practices of Public School Teachers" (February, 1984). North Carolina Association for Research in Education, Duke University.
- "Energy Conservation and Lifestyle" (October, 1983). Association of Research Directors, Poster Session, Dallas, Texas.
- "Garrett House Energy Research Project" (October, 1983). American Association of Housing Educators, Poster Session, University of Nebraska.
- "A Home Away from Home" (November, 1982). North Carolina Home Economics Association, Annual Meeting.

"Model Solar Home for Demonstration & Consumer Studies" (November, 1980). North Carolina Home Economics Association.

Funded Research Studies/Projects

Post Harvest Technologies, North Carolina Research Campus, 2006-2010. Special State Funding through the General Assembly and UNC General Administration, \$9.8 M. Co-Investigator with Dean Alton Thompson.

Investigation of the Effects of Consumer Behavior in Achieving Energy Efficiency in Heating and Cooling Systems in Manufactured Housing in North Carolina. 2005. In collaboration with the Center for Energy Research and Technology. North Carolina State Energy Office.

Economic Feasibility and Implementation of Alternative Energy Efficient Sources of Heating Manufactured Housing Units. 2004. In collaboration with the Center for Energy Research and Technology. North Carolina State Energy Office.

Investigation of Energy Efficient Heating and Cooling Systems in Manufactured Housing for North Carolina. 2003. In collaboration with the Center for Energy Research and Technology. North Carolina State Energy Office.

Monitoring Energy Consumption of Two Side-by Side Manufactured Units. 2001 — 2002. In collaboration with the Center for Energy Research and Technology. North Carolina State Energy Office and US Department of Energy.

Establishment of the Center for Energy Research and Technology (includes Manufactured Housing Center). 1998 - 2000. North Carolina Energy Division. Co-Investigator (with Architectural Engineering). \$650,000.

Developing and Testing an Indoor Air Assessment Procedure for Restaurants Which Permit Smoking: A Demonstration Project. Center for Indoor Air Research. March, 1998 — May, 1999. Co-Investigator (with Architectural Engineering). \$100,811.

Food Safety Practices (and related housing characteristics) Among the Elderly. Cooperative State Research Service, United States Department of Agriculture. October, 1998 — September, 2001. Principal Investigator. \$186,711.

Improving Indoor Air Quality and Customer Satisfaction in Restaurants—A Demonstration Project. Center for Indoor Air Research. July, 1997 — February, 1998. Co-Investigator, (with Architectural Engineering), \$135,056.

Photovoltaic Energy and Sustainable Dwellings: Performance, Economics and User Analysis. Cooperative State Research, Education, and Extension Service, United States Department of Agriculture. October, 1996 - September, 1999. Principal Investigator. \$156,998.

- INTERNSHIP SUCCESS: Student Professional Development and Career Placement.* Cooperative State Research, Education, and Extension Service, United States Department of Agriculture, Capacity Building Program. September, 1996 - August, 1999. Principal Investigator. \$202,480.
- Indoor Air Quality and Customer Satisfaction: A Restaurant Demonstration Project.* (1996). Center for Indoor Air Research. July, 1996- June, 1997. Co-Investigator, multi-disciplinary study with Department of Architectural Engineering and Department of Construction Management and Safety. \$98,073.
- Assessment of Utilization and Local Community Perceptions of Farmers Home Administration Housing Programs in North Carolina.* Rural Housing and Community Development Services (former Farmers Home Administration). September, 1994 - June, 1995. Principal Investigator. Co-Investigator, interdisciplinary study with Agricultural Economics and Extension. \$53,000.
- Computer Assisted Telephone Interviewing Facility.* Capacity Building Grants Program, Cooperative State Research, Education, and Extension Service. United States Department of Agriculture. 1995 - 1998. Co-Investigator. \$355,992.
- Analysis of Factory-Built Housing as an Affordable Housing Alternative for Rural Communities in North Carolina.* Cooperative State Research Service, United States Department of Agriculture, October 1, 1992 - September 30, 1996, Principal Investigator. \$239,455.
- Application of Geographic Information Systems to Enhance Greensboro's Housing and Community Development Planning, U. S. Department of Housing and Urban Development,* June, 1992 - December, 1995, Co-Investigator. \$499,963.
- Survey of the Housing Needs of Disabled Individuals in Rural North Carolina,* National Institute on Disability and Rehabilitation Research, U. S. Department of Education, in collaboration with the Center for Accessible Housing, North Carolina State University, May, 1992 - June, 1995, Principal Investigator. \$51,345.
- Rural Housing Options: Housing Assistance and Affordability.* Contract with University of Montana, through the National Institute on Disability and Rehabilitation Research, U. S. Department of Education, 1992-1993, Principal Investigator. \$5,000.
- Counting the Homeless for the 1993 Comprehensive Housing Affordability Strategy for the City of Greensboro.* 1993, Housing and Community Development Division of the City of Greensboro, 1993. Principal Investigator. \$5,000.
- Qualitative and Quantitative Analysis of the 1990 U S. Census Bureau Data Relating to the 1992 Comprehensive Housing Affordability Strategy and to a Housing Needs Assessment for the City of Greensboro.* February, 1992 - October, 1992, Principal Investigator. \$62,389.

Applied Social and Economic Survey Research Center, Cooperative State Research Service, United States Department of Agriculture, July, 1991 - June 1994, Co-Investigator. \$359,975.

Factors Influencing Anticipated and Actual Home Energy Modifications of the Rural Elderly. Cooperative State Research, Education and Extension Service, United States Department of Agriculture, 1989-1992. Principal Investigator. \$162,345.

Residential Application of Automation Technologies. N. C. Board of Science and Technology, 1988-89. Principal Investigator. \$89,000.

Manufactured Housing and Weatherization N. C. Alternative Energy Corporation, 1988-89. Principal Investigator. \$5,000.

System Performance and Perceived Thermal Comfort in the Garrett House Test Facility," Honeywell Corporation. 1988-89; U. S. Department of Energy, Summer, 1990; United States Department of Agriculture, Fall, 1990. Project Coordinator. \$152,115.

Energy Use Practices: Effect of Behavioral Feedback on Energy management. Cooperative State Research, Education and Extension Service, United States Department of Agriculture, 1986 - 1989. Principal Investigator. \$152,000.

The Effect of Home Energy Conservation Strategies on Lifestyle. Cooperative State Research Service, United States Department of Agriculture, 1982-1986. Principal Investigator. \$365,000.

Model Solar Home for Demonstration and Consumer Studies. North Carolina Energy Institute, Department of Commerce. Co-Investigator, 1978-80. \$20,000.

Courses Taught

HEFS 400, Contemporary Housing
HEFS 505, Resource Management and Household Equipment HERS
612, Senior Seminar (Core Course, Introduction to Research)

Have taught HEFS 400 and HEFS 505 off campus through the Continuing Education. Have used communications technology to teach some classes from Greensboro to throughout the state.

Invited Speeches and Presentations

"Housing Issues: Integrating Housing into the FCS Curriculum." (June 6, 2005). Career Education Conference, Nebraska Department of Education, Kearney, Nebraska (with Shirley Niemeyer)

- "Framework for Consumer Studies: Manufactured Housing and Energy Efficiency." (October 20, 2004). Invited presentation by the Manufactured Housing Research Alliance for input into developing the Science Roadmap (Research Agenda) for the next 10 years by the U. S. Department of Energy and the U. S. Housing and Urban Development on manufactured housing and energy research.
- "Focus on National," Keynote Address, (March, 2001). North Carolina Association of Family and Consumer Sciences, Salisbury, N. C.
- "Solar 101." The Solar Connection Seminar and Tour, Guilford County Solar Communities Program, (February 24, 2001).
- "Technological Changes," December 5, 2000. Guilford County Association of Family and Consumer Sciences.
- "The Impact of Technology on Living Environments." June, 2000. American Association of Family and Consumer Sciences, Annual Conference, Moderator and Panelist.
- "Restructuring of the Electric Utility Industry. January, 1997. International Electronic and Electric Engineers, Piedmont Chapter, Greensboro.
- "Across the Heart of Asia: Culture, History, Housing and Energy Issues." January - February, 1997. Presentation on Smithsonian Institute Study Tour (September-October, 1996). Presented at NC A&T State University, Duke Power Company, NC Alternative Energy Corporation.
- "Housing Policy in the United States." January, 1995. Presentation to Workshop for South Africans studying strategies and policies used in the United States to address economic and social concerns. Jointly sponsored by North Carolina A&T State University and the Institute for International Education.
- "The University as a Resource for Research and Local Policy Development," Annual Conference Program, American Association of Housing Educators, October, 1993, Panelist.
- "Research Ideas in Waste Management," Annual Conference Program, American Association of Housing Educators, October, 1991, Panelist.
- "Smart House Technology," Guilford County Home Economics Club, April, 1991.
- "Smart House." Virginia Home Economics Association, Annual Meeting Program, April 5, 1989, Norfolk, Virginia.
- "Involvement as a Professional," State Student Section Meeting, North Carolina Home Economics Association, March, 1989.

"Professionalism for the 90's" Honors Convocation, School of Home Economics,
East Carolina University, 1989.

"Leadership in the Profession," Meredith College, 1989.

"Defining and Analyzing Issues," Guilford County Cooperative Extension, Family
and Community Leadership Conference, November, 1988.

"Housing Technology." North Carolina Home Economics Association, Annual
Meeting Program, November, 1987, Asheville.

"Smart Houses: Safe Living Environments." Family Living Seminar, N. C. Agricultural
Extension Service, N. C. State University, June 11, 1987, Raleigh.

"Smart House Technology." Teacher Workshop, N. C. Department of Public Instruction,
August 7, 1987, Greensboro.

"Implications of the Smart House for the Elderly." Home Economics
Volunteers, September 11, 1987, Raleigh.

Notable University Activities/Service

University

University Grievance Committee, EPA Non-Teaching, 2005 to present
Council for Associate and Assistant Deans, (CAAD) Division of Research
UNC Tomorrow, Tenure and Promotion Committee
FUTURES, Development and Funding Committee
Public Health Institute Committee
Selection Committee, Chair, Vice Chancellor for Research and Economic Development
Institutional Review Board (Human Subjects Review), 2002 - present
University Handbook Revision Committee.
Center for Energy Research and Technology (Interdisciplinary research effort on campus)
Leader, Manufactured Housing Initiative
Campus Coordinator, Advisory Board for Manufactured Housing
University Faculty Senate (governing body for curriculum and faculty welfare)
University Faculty Council (governing body for student activities and welfare)
Selection Committees: Vice Chancellor for Research and Community Develop (Chair),
Arts and Sciences Dean, Nursing Dean
Recruiting Efforts: Annually visit Wilmington, NC and Guilford County

School of Agriculture and Environmental Sciences

Undergraduate Research Program
Project Management Improvement Think Tank
Tenure and Promotion for Research and Extension Committee, Chair
Strategic Planning Committee
Recruitment and Retention Committee

Statewide Town Meetings Committee
Chair, Salary Enhancement Committee, School of Agriculture.
Selection Committees: Animal Science Chair
Hall of Fame Committee
Agricultural Research Retreat Planning Committee
Chair, Evaluation Committee: HEFS Department Chair

Department Committees (Family and Consumer Sciences)

Advisor, Kappa Omicron Nu, Student Chapter.
Chair, Faculty Committee for the Advisory Board to the Department of Family and Consumer Sciences. Gave leadership with Department Chair in raising scholarship funds (goal of \$100,000)
Chair, FCS Scholarship Criteria Committee
Recruitment Committee
Chair, Research Committee (Chair of Strategic Research Plan Committee for FCS), 1998 - present.
Secretary, Faculty Meetings
AAFCS Accreditation Faculty Team

Community Service/Appointments/Consultink

National Food Defense and Protection Center, U. S. Department of Homeland Security, Executive Advisory Board. 2005 to present.

National Energy Advisory Board, States Energy Advisory Board, U. S. Department of Energy. Appointed by Secretary of Energy, 1999-2005.

National Steering Committee, U. S. Department of Energy, Florida Solar Energy Center, Building America Industrialized Housing Partnership, 2000-present.

Board of Directors, North Carolina Advanced Energy Corporation. Governor-appointed position. Chair, 1996-1999; Member, 1994-present.

Chair, Environmental Review Board. Appointed by Guilford County Board of Commissioners, 2004 — present.

Chair, Duke Power Company, Public Advisory Panel (formerly named the Integrated Resource Panel), Member, 1993; Chair, 1994-96.

Fund-Raising Committee, Mary's House. (Housing for mothers recovering from drug abuse and their children).

Board of Directors, African American Atelier, Inc., 1999-2001. (Art gallery).

4-H Judging, 2000, NC Department of Public Instruction, Housing and Home Interiors

Energy Poster Judging. Earth Day Celebration, 2000. Guilford County Public Schools
(160 posters)

Board of Directors, Greensboro YWCA, Board Member, 1991-96, Building Corn., 1991- 94.

Solar Energy Advisory Committee, Guilford County Cooperative Extension Service, 2000,
1996, 1990. Sponsored three statewide workshops on green buildings.

North Carolina Day Care Licensing Commission, 1971-1985. Chair beginning in
1977. Governor-appointed position.

Task Force to Promote Industry Day Care. United Day Care Services, Greensboro.

Day Care Committee, Greensboro Commission on the Status of Women.

Holy Trinity Episcopal Church. Altar Guild; Assistant in Adult Bible Education Class;
Church School Teacher; Media Coordinator.

Greensboro Symphony Guild.

Special Recognition

Recognition for Outstanding Service to the Chapter, Gamma Sigma Delta, 2008.

Certificate of Appreciation in Recognition of Outstanding Contributions to Research,
Division of Research, NCA&T, 2008.

Recognition for Leadership. American Association of Housing Educators, 1999.

Award of Excellence in Research. Gamma Sigma Delta, N. C. A & T State
University Chapter, 1999, 1989.

Mentor of Distinction Award. Women in Business Advisory Council, Raleigh, N. C.,

1988. Listed in Who's Who of American Women.